**REVIEWED**
*By Mike Buchanan at 4:39 pm, Jun 07, 2023*



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TALON LPE

# 2022 ANNUAL GROUNDWATER MONITORING REPORT

**LOVINGTON DEEP 6”**
**LEA COUNTY, NEW MEXICO**
**SRS #2002—10312**
**NMOCD REF. # AP-037, nAPP2109530339**

**PREPARED FOR:**
**PLAINS PIPELINE, L.P.**
**333 CLAY STREET, SUITE 1600**
**HOUSTON, TEXAS 77002**

**PREPARED BY:**
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**408 TEXAS AVENUE**
**ARTESIA, NEW MEXICO 88210**

Review of the 2022 Annual Groundwater Monitoring Report: **Content Satisfactory**
**1.** Continue to sample and monitor gw wells per protocol in sampling plan.
2. Continue monthly MDPE events.
3. Submit the 2023 Annual Groundwater Report by April 1, 2024.

**March 28, 2023**

# 2022 ANNUAL GROUNDWATER MONITORING REPORT

## LOVINGTON DEEP 6"
## LEA COUNTY, NEW MEXICO
## SRS #2002 - 10312
## NMOCD REF. # AP-037, nAPP2109530339

**PLAINS PIPELINE, L.P.**
**333 CLAY STREET, SUITE 1600**
**HOUSTON, TEXAS 77002**

**TALON/LPE PROJECT NO. 700376.051.54**

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**March 28, 2023**

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NMOCD - New Mexico Oil Conservation Division

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# 1.0 INTRODUCTION AND OBJECTIVES

## 1.1 Site Background

The Lovington Deep 6", hereinafter referred to as the "site", is located approximately 5.8 miles southwest of Lovington, New Mexico in Unit H, Section 6, Township 16 South, and Range 36 East. A release of crude oil from the Plains Deep 6" pipeline occurred on property which is owned by Chevron and primarily utilized as pasture/range with intermittent oil production facilities. The site is located within the West Lovington oil field and has no residence or surface water located within a 1,000-foot radius of the release point. The remediation area is surrounded by a barbed wire fence and is gated.

The site is situated within a physiographic region that is on the extreme south-western portion of the Southern High Plains as it grades into the Edwards Plateau to the south and southeast and the Chihuahuan Desert of the Trans-Pecos Region to the southwest.

The topography proximal to the site is typical of the Southern High Plains, essentially flat with shallow depressions, or playa lakes, dotting the landscape. The prominent surface features on the Southern High Plains are the approximately 19,250 ephemeral playa lakes; however, the density of the playa lakes diminishes toward the southern extent of the Southern High Plains. During periods of rainfall, the playa lakes accumulate sheet runoff from watershed areas ranging in size from less than one (1) square mile to several square miles. Only a small portion of drainage from rainfall occurs by streams. Playa lakes that collect storm water runoff can act as a recharge mechanism for groundwater.

The average elevation of the site area is approximately 3,915 feet above mean sea level with a slight slope generally to the southeast. The regional slope of the land surface in the Southern High Plains is approximately 100 feet per mile in the generally southeast direction.

In December 2002, a reported release of approximately 25 barrels (bbls) of crude oil occurred at the site due to corrosion of the Plains Deep 6" pipeline. Ten (10) bbls of crude oil was recovered during initial response activities. Approximately 6,000 square feet of surface area was impacted by the release. During the initial remediation phase, soil that was impacted by the release was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm for treatment. Soil remediation activities were initiated by Environmental Plus, Inc. (EPI) in 2003 and the soil phase of site remediation was closed in October 2005.

On February 5, 2007, Talon/LPE (Talon) was retained by Plains Marketing, L.P. (Plains) to assume groundwater remediation activities at the Lovington Deep 6" release site. Groundwater remediation activities at the site were previously conducted by EPI.

## 1.2 Site Geology

The surficial deposits in Lea County are composed of Blackwater Draw (Illinoian) sediments, Ogallala sediments and undivided Quaternary alluvium, which is also termed 'cover sands'. The soil in the upper two (2) feet at the site is composed of gravelly loam that contains abundant eroded gravel to cobble size caliche fragments. Below the top soil is predominately unconsolidated sand to weakly cemented sandstone, which has undergone calichification of varying extent.

Below the Blackwater Draw Formation is the Ogallala Formation of Miocene to Pliocene age. The Ogallala Formation was deposited from sediments eroded from the Southern Rockies and consists mostly of eolian sediments, silty to very fine sand or loess. During the middle to late Miocene, Ogallala sediments were deposited by fluvial mechanism as paleovalley fill, which is composed of gravelly to sandy braided stream deposits that trend west to east across the Southern High Plains. During the late Miocene, the west to east drainage was diverted (captured) by the Pecos River. Subsequently, the Pecos River basin has experienced deflation, which facilitated eolian deposition on the Southern High Plains during the Pliocene.

## 1.3 Previous Environmental Investigations

During initial assessment activities to delineate the extent of impacted soil at the site, six (6) soil borings were advanced from December 27, 2002, through January 2, 2004. During the assessment, soil boring BH-1 encountered groundwater that was impacted by phase separated hydrocarbons (PSH). Subsequently, soil boring BH-1 was completed as groundwater monitor well, MW-2. Soil borings BH-2, BH-4, BH-5, and BH-6 were advanced in order to delineate the extent of impacted groundwater and those soil borings were completed as groundwater monitor wells MW-1, MW-3, MW-4, and MW-5 respectively.

During November and December of 2004, six (6) groundwater monitor wells (MW-6 through MW-11) were installed to further delineate the lateral extent of groundwater impacts at the site. In July 2006, six (6) additional groundwater monitor wells (MW-12 through MW-17) were installed to complete assessment of the areal extent of impacted groundwater.

Subsequent groundwater monitoring events indicated that benzene concentrations in the down-gradient sentinel monitor wells (MW-12 and MW-18) consistently exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard. Therefore, two (2) additional monitor wells MW-19 and MW-20 were installed further down-gradient on August 27, 2018.

PSH recovery operations have been performed at the site since March 2003, initially from hand bailing followed by a recovery system that utilized skimmers with bladder pumps. In April of 2010, a pneumatic total fluid pump was installed in monitor well MW-2. Due to an insignificant increase in PSH production and because the total fluid pump increased groundwater production, the total fluids pump was removed from MW-2 in September of 2010 and replaced with a skimmer and bladder pump. In order

to help reduce down-gradient dissolved-phase concentrations, air sparge bubblers were installed in monitor wells MW-10 and MW-12 in January of 2011.

At the end of 2012, there were six (6) skimmers with bladder pumps operating in monitor wells MW-2, MW-13, MW-14, MW-15, MW-16, and MW-17. During 2012, three (3) Mobile Dual Phase Extraction (MDPE) events were conducted on site. A total of approximately 27 bbls of liquid and vapor PSH were recovered during these events, and five (5) bbls of crude oil was recovered during 2012 by the skimmer pump system.

Because the MDPE events have proven to be far more efficient at PSH recovery, the on-site recovery system was removed completely in January of 2013. MDPE events are now conducted on a monthly basis. On February 20, 2016 a new compressor was installed for the air sparge bubblers in monitoring wells MW-10, MW-12, and MW-18.

For 2022, during the quarters one (1) through three (3), there were two (2) air sparge bubblers operating in MW-18 and MW-19. The air sparge bubblers were removed in the fourth quarter of 2022. In 2022, MDPE events recovered an estimated total of 52.48 bbls of PSH consisting of 13.21 bbls of liquid and 39.26 bbls of vapor phase PSH. To date, approximately 529.15 bbls of PSH have been recovered during the described remediation efforts.

### 1.4 Regulatory Framework

Groundwater analytical data collected from the site is evaluated to the NMWQCC groundwater standards outlined below:

| NMWQCC Groundwater Standards | |
|---|---|
| **Compound** | **mg/L** |
| Benzene | 0.010 |
| Toluene | 0.750 |
| Ethylbenzene | 0.750 |
| Total Xylenes | 0.620 |
| PAH (Naphthalene) | 0.030 |
| PAH (Benzo[a]-pyrene) | 0.0007 |

mg/L: milligrams per liter

The subsequent sections of this report provide summaries of the groundwater monitoring activities that were conducted at the subject site during the year 2022, as well as analytical results from each groundwater sampling event. Cumulative analytical results for the four (4) 2022 quarterly sampling events are summarized in Table 2, in Appendix B, and Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

# 2.0 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the site during 2022. The primary function of groundwater monitoring is to measure the depths to fluids and to collect groundwater samples from monitor wells for laboratory analysis. The objective of groundwater monitoring is to evaluate the status of the dissolved-phase and PSH plume in order to verify the effectiveness of the groundwater remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater and determining if modifications to the remediation system would improve its performance and efficiency if necessary.

## 2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon during the year 2022 on March 2-3, June 2-3, September 13-14, and December 1, 2, and 5, 2022.

During the March 2022 event, groundwater samples were collected from 13 monitor wells: MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from two (2) monitor wells (MW-6 and MW-10), due to the wells being dry and MW-7 was not sampled due to insufficient water. Four (4) wells (MW-2, MW-13, MW-14, and MW-17) were impacted by PSH. Details of the gauging, purging, and sampling activities are presented below in Section 2.2.

During the June 2022 event, groundwater samples were collected from 13 monitor wells: MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from two (2) monitor wells (MW-6 and MW-10) due to the wells being dry and MW-7 was not sampled due to insufficient water. Four (4) wells (MW-2, MW-13, MW-14, and MW-17) were impacted by PSH. Details of the gauging, purging, and sampling activities are presented below in Section 2.2.

During the September 2022 event, groundwater samples were collected from 13 monitor wells: MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from two (2) monitor wells (MW-6 and MW-10) due to the wells being dry and MW-7 was not sampled due to insufficient water. Four (4) wells (MW-2, MW-13, MW-14, and MW-17) were impacted by PSH. Details of the gauging, purging, and sampling activities are presented below in Section 2.2.

During the December 2022 event, groundwater samples were collected from 13 monitor wells: MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from two (2) monitor wells (MW-6 and MW-10) due to the wells being dry and MW-7 was not sampled due to insufficient water. Four (4) wells (MW-2, MW-13, MW-14, and MW-17) were impacted by PSH. Details of the gauging, purging, and sampling activities are presented below in Section 2.2.

## 2.2 Groundwater Gauging, Purging, and Sample Collection Procedures

During each groundwater monitoring event, all monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulations, if present. The data collected from these measurements was used to construct groundwater gradient maps and PSH thickness isopleth maps. The results of the measured depths to fluids collected during the four (4) events conducted in 2022 are incorporated in Table 1 - Groundwater Gauging Data - Historical.

Subsequent to gauging, all monitor wells were purged using a down-hole pump equipped with vinyl tubing. The pump and tubing were decontaminated with Alconox® detergent and rinsed with distilled water after each use. Recovered purge water and water used in the decontamination process was contained in 55-gallon drums. After the groundwater monitoring event, all retained water was placed into the on-site storage tank and removed with a vacuum truck for disposal at Gandy Marley, an NMOCD approved facility.

Groundwater samples were collected from all monitor wells using dedicated disposable polyethylene bailers. Each groundwater sample was contained in laboratory supplied sample containers with the appropriate preservative required for the analysis requested. The groundwater samples were maintained on ice, in the custody of Talon personnel, until they were delivered to Eurofins in Carlsbad, New Mexico, for analysis. The groundwater samples collected during all four (4) events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by Environmental Protection Agency (EPA) Method SW-846 8021B.

## 2.3 Phase Separated Hydrocarbon Recovery

Initial PSH recovery was conducted at the in 2003 by hand bailing. In 2007, an automated skimmer/bladder pump recovery system was installed at the site. The system utilized six (6) skimmers with bladder pumps in monitor wells MW-2 and MW-13 through MW-17 for recovery of PSH and to inhibit migration of the PSH plume. The skimmer assembly consisted of bladder pumps combined with 24-inch traveling float specific gravity skimmers attachments. The skimmer system was powered by a single-phase, 230-volt, 7.5 HP, two-stage reciprocating air compressor.

Currently, MDPE events are conducted monthly. This system utilizes vapor pulled by vacuum combined with propane to power an internal combustion engine. In addition, it also powers a compressor and the blower used to create a vacuum for vapor recovery. Compressed air from the system drives pneumatic pumps placed in the various wells containing PSH. Fluid recovered by the pumps is retained in an on-site 1,500-gallon poly tank. The poly tank is equipped with a high level shut off switch to prevent overflow and is located within a secondary containment compound that is outfitted with a poly-liner. Recovered groundwater and PSH is removed from the poly tank and transported to an NMOCD approved disposal facility, Gandy Marley, via vacuum truck at the end of each MDPE event.

During 2022, the quarterly MDPE PSH and groundwater recovery totals are as follows:

- 1st Quarter – 17.78 bbls PSH and 66.74 bbls of groundwater
- 2nd Quarter – 13.25 bbls PSH and 90.86 bbls of groundwater
- 3rd Quarter – 11.70 bbls PSH and 76.29 bbls of groundwater
- 4th Quarter – 9.74 bbls PSH and 68.90 bbls groundwater

The MDPE individual event recovery totals are as follows:

- January 4, 2022 – 6.25 bbls vapor PSH, 1.48 bbls liquid PSH
- March 3, 2022– 5.37 bbls vapor PSH, 0.93 bbls liquid PSH
- March 31, 2022 – 2.93 bbls vapor PSH, 0.83 bbls liquid PSH
- April 12, 2022 – 3.51 bbls vapor PSH, 1.31 bbls liquid PSH
- May 11, 2022 – 5.28 bbls vapor PSH, 1.0 bbls liquid PSH
- June 16, 2022 – 1.89 bbls vapor PSH, 0.26 bbls liquid PSH
- July 19, 2022 – 2.68 bbls vapor PSH, 1.69 bbls liquid PSH
- August 2, 2022 – 2.95 bbls vapor PSH, 1.12 bbls liquid PSH
- September 22, 2022 – 2.32 bbls vapor PSH, 0.93 bbls liquid PSH
- October 1, 2022 – 1.33 bbls vapor PSH, 0.76 bbls liquid PSH
- November 15, 2022 – 2.05 bbls vapor PSH, 1.76 bbls liquid PSH
- December 15, 2022 – 2.69 bbls vapor PSH, 1.14 bbls liquid PSH

In 2022, an estimated total of 52.48 bbls of PSH were recovered during the MDPE events. Approximately 529.15 bbls of PSH consisting of 261.79 bbls of vapor phase and 267.35 bbls of liquid phase PSH have been recovered from the site to date.

# 3.0 GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 - Groundwater Analytical Data - Historical in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C. The following sections present the results from the monitoring of the first water-bearing zone underlying the site.

## 3.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, which includes the site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala Aquifer underlies an area of about 29,000 square miles in western Texas and eastern New Mexico, which encompasses all or part of 31 counties in Texas and six (6) counties in New Mexico.

The Ogallala Aquifer has experienced acute depletion from extensive irrigation and urban demand, which have exceeded the average annual recharge rate. Recharge of the Ogallala Aquifer on the Southern High Plains occurs predominately from rainfall runoff that accumulates in ephemeral streams and playa lakes, as well as direct recharge in areas that contain permeable soils such as sand hills. Recharge rates vary depending on mechanism, but averages from 0 to 1.6 inches per year.

The Ogallala Aquifer is generally unconfined and the potentiometric surface mimics the topography with a regional flow direction from the general northwest to the general southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven (7) inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%. The depth to groundwater at the site has historically ranged from 60 to 65 feet below ground surface (bgs) and the groundwater flow direction is generally to the east. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet. The variable thickness is due to the irregularly eroded Triassic surface that underlies it.

The composition of Ogallala groundwater is defined as mixed-cation-$HCO_3$. Therefore, Ogallala groundwater is considered hard. Problems with scale have occurred with residential and commercial water systems that use Ogallala groundwater and treatment strategies are often employed to reduce the effects of scale. The typical total dissolved solids of Ogallala groundwater in the Hobbs-Lovington area is generally less than 1,000 mg/L (parts per million (ppm)) in areas not impacted by oil-field brines. The pH of Ogallala water averages 7.3.

## 3.2 Groundwater Gradient and Flow Direction

The depth to fluid measurements were collected during each of the four (4) groundwater monitoring events during the year 2022. The results of the fluid level measurements are summarized in Table 1 - Groundwater Gauging Data – Historical in Appendix B. The collected data was used to construct potentiometric surface maps in order to interpret the groundwater gradient and flow direction. The maps,

designated Figures 2a through 2d, are presented in Appendix A.
The potentiometric surface maps constructed for each of the four (4) groundwater monitoring events indicates that the groundwater flow direction is generally to the east at an approximate gradient of average 0.0027 feet/foot or approximately 14.26 feet/mile. Groundwater levels at the subject site have decreased slightly, approximately 0.14 feet for the year 2022.

### 3.3 Phase Separated Hydrocarbon

An oil/water interface probe was used to determine the thicknesses of PSH during the four (4) groundwater monitoring events. Generally, PSH thicknesses have fluctuated slightly from quarter to quarter during the year 2022.

In addition to potentiometric surface maps, isopleth maps were prepared depicting the measured PSH thicknesses and PSH plume geometry. PSH plume delineation and thickness isopleth maps are presented in Appendix A as Figures 3a through 3d. The PSH plume is delineated by the current monitor well geometry.

- In March 2022, PSH was observed in four (4) monitor wells: MW-2, MW-13, MW-14, and MW-17. PSH thickness ranged from 0.02 feet to 3.98 feet.
- In June 2022, PSH was observed in four (4) monitor wells: MW-2, MW-13, MW-14, and MW-17. PSH thickness ranged from 0.02 feet to 3.65 feet.
- In September 2022, PSH was observed in four (4) monitor wells: MW-2, MW-13, MW-14, and MW-17. PSH thickness ranged from 0.01 feet to 4.08 feet.
- In December 2022, PSH was observed in four (4) monitor wells MW-2, MW-13, MW-14, and MW-17. PSH thickness ranged from 0.01 feet to 3.65 feet.

### 3.4 Groundwater Analytical Results

During the March 2022 sampling event, groundwater samples were collected from 13 monitor wells (MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 though MW-20). Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations were below the applicable laboratory method detection limit (MDL) in all wells sampled. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells that were sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDL in all wells with the exception of MW-18, which exhibited a toluene concentration of 0.00477 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDL in all wells with the exception of MW-3 and MW-15, which exhibited ethylbenzene concentrations of 0.0265 mg/L and 0.00449 mg/L, respectively. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.

- Xylene concentrations were below the applicable laboratory MDL in all wells with the exception of MW-3, which exhibited a xylene concentration of 0.00488 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the June 2022 sampling event, groundwater samples were collected from 13 monitor wells (MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20). Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-19, which exhibited a benzene concentration of 0.0268 mg/L. The aforementioned concentration in MW-19 exceeded the applicable NMWQCC groundwater standard of 0.010 mg/L.
- Toluene concentrations were below the applicable laboratory MDLs in all wells. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled during this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3, which exhibited an ethylbenzene concentration of 0.0494 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3, which exhibited a xylene concentration of 0.0641 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled during this quarter.

During the September 2022 sampling event, groundwater samples were collected from 13 monitor wells (MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20). Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-19, which exhibited a benzene concentration of 0.000773 mg/L. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations below the applicable laboratory MDLs in all wells sampled. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells sampled. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3 and MW-15, which exhibited xylene concentrations of 0.0306 mg/L and 0.00122 mg/L, respectively. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the December 2022 sampling event, groundwater samples were collected from 13 monitor wells (MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20). Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-19, which exhibited a benzene concentration of 0.00110 mg/L. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-1, which exhibited a toluene concentration of 0.000657 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3 and MW-15, which exhibited ethylbenzene concentrations of 0.0269 mg/L and 0.00224 mg/L, respectively. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3, which exhibited a xylene concentration of 0.0222 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

The laboratory analytical results are summarized in Table 2 - Groundwater Analytical Data - Historical in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C.

# 4.0 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the four (4) groundwater monitoring events conducted at the Plains Lovington Deep 6" site and Section 4.2 provides recommendations for future corrective action.

## 4.1 Summary of Findings

- The groundwater flow direction is generally to the east with an average gradient of 0.0027 feet/foot based on the water level measurement data collected in 2022.
- Groundwater levels at the subject site have decrease slightly for the year 2022.
- PSH was encountered in monitor wells MW-2, MW-13, MW-14, and MW-17 in 2022. The PSH plume is well defined.
- Approximately 52.48 bbls of PSH was removed from the site during the year 2022.
- During the 2nd quarterly sampling event, MW-19 exhibited a benzene concentration of 0.00110 mg/L, which exceeds the applicable NMWQCC groundwater standard for benzene of 0.010 mg/L. With the exception of MW-19 during the second quarter, no monitor wells sampled exceeded the applicable NMWQCC groundwater standard for all quarters during 2022.

## 4.2 Recommendations

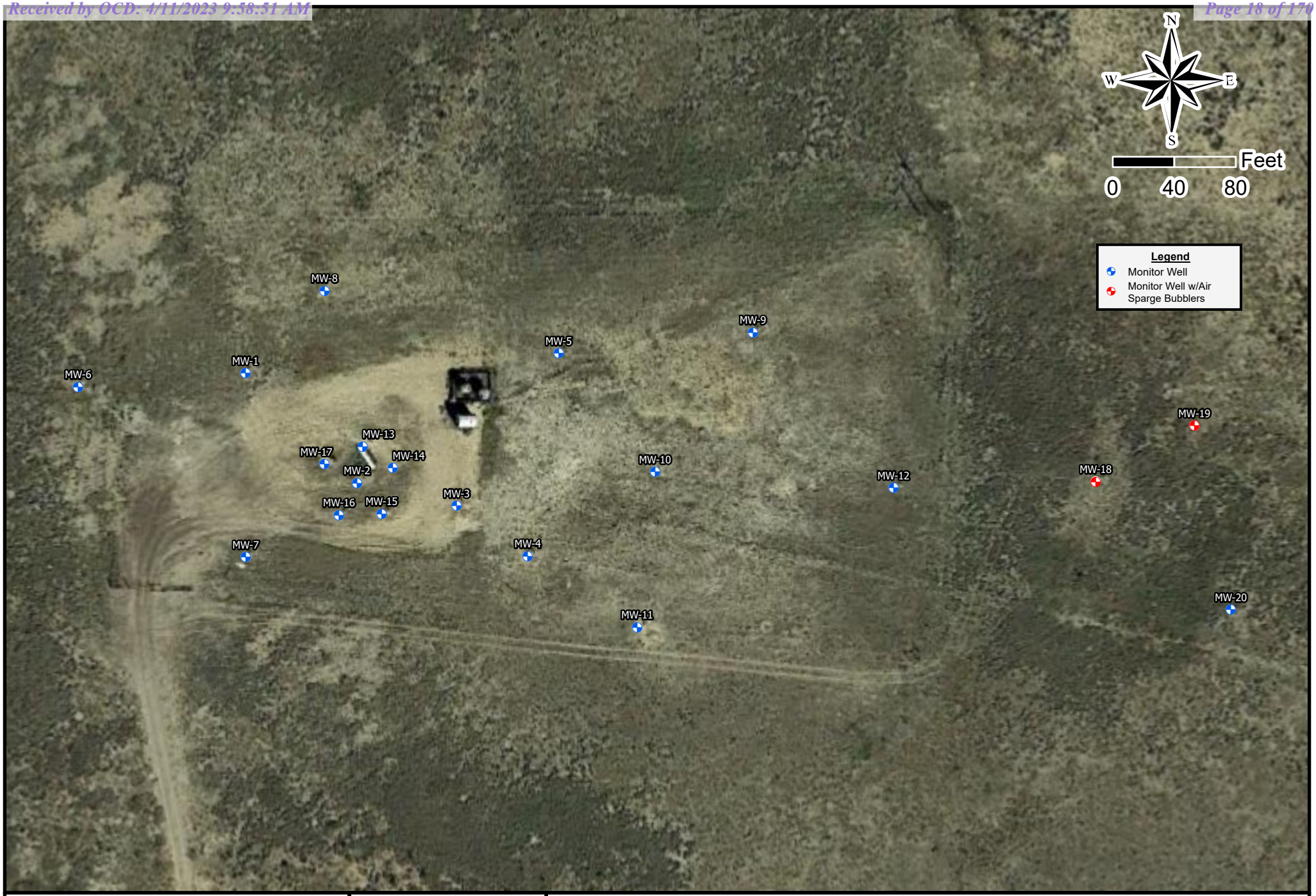
Based upon the results of the quarterly groundwater monitoring and PSH recovery efforts, Talon proposes the following actions:

- Continue monthly MDPE events.
- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.

# APPENDIX A

## Figures

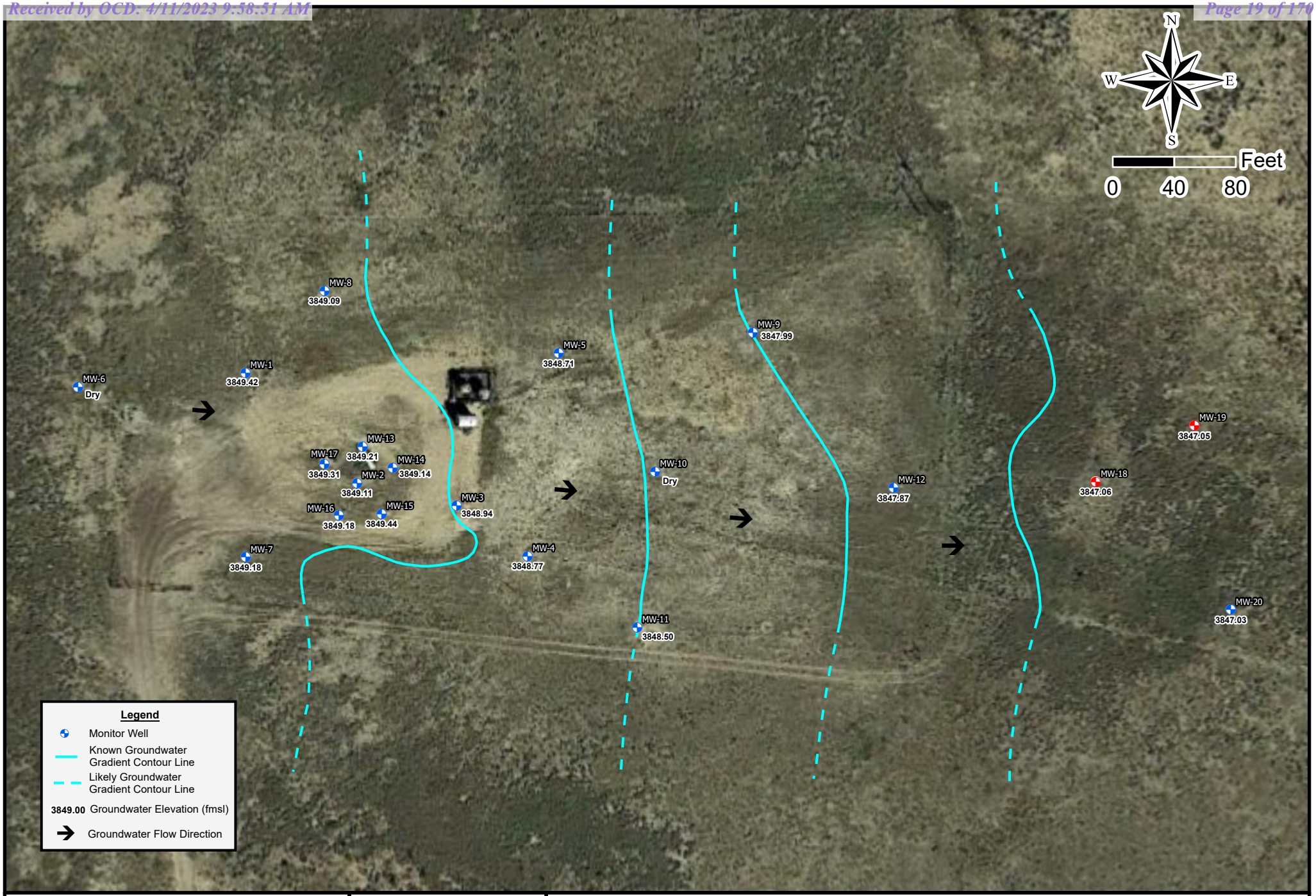
Figure 1 - Site Plan
Figure 2a - Groundwater Gradient Map - 03/02/2022
Figure 2b - Groundwater Gradient Map - 06/02/2022
Figure 2c - Groundwater Gradient Map - 09/13/2022
Figure 2d - Groundwater Gradient Map – 12/01/2022
Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/02-03/2022
Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/02-03/2022
Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/13/2022
Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/02-05/2022




TALON LPE

Drafted: 4/23/2021
1 in = 80 ft
Drafted By: JAI

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 1 - Site Plan




TALON LPE

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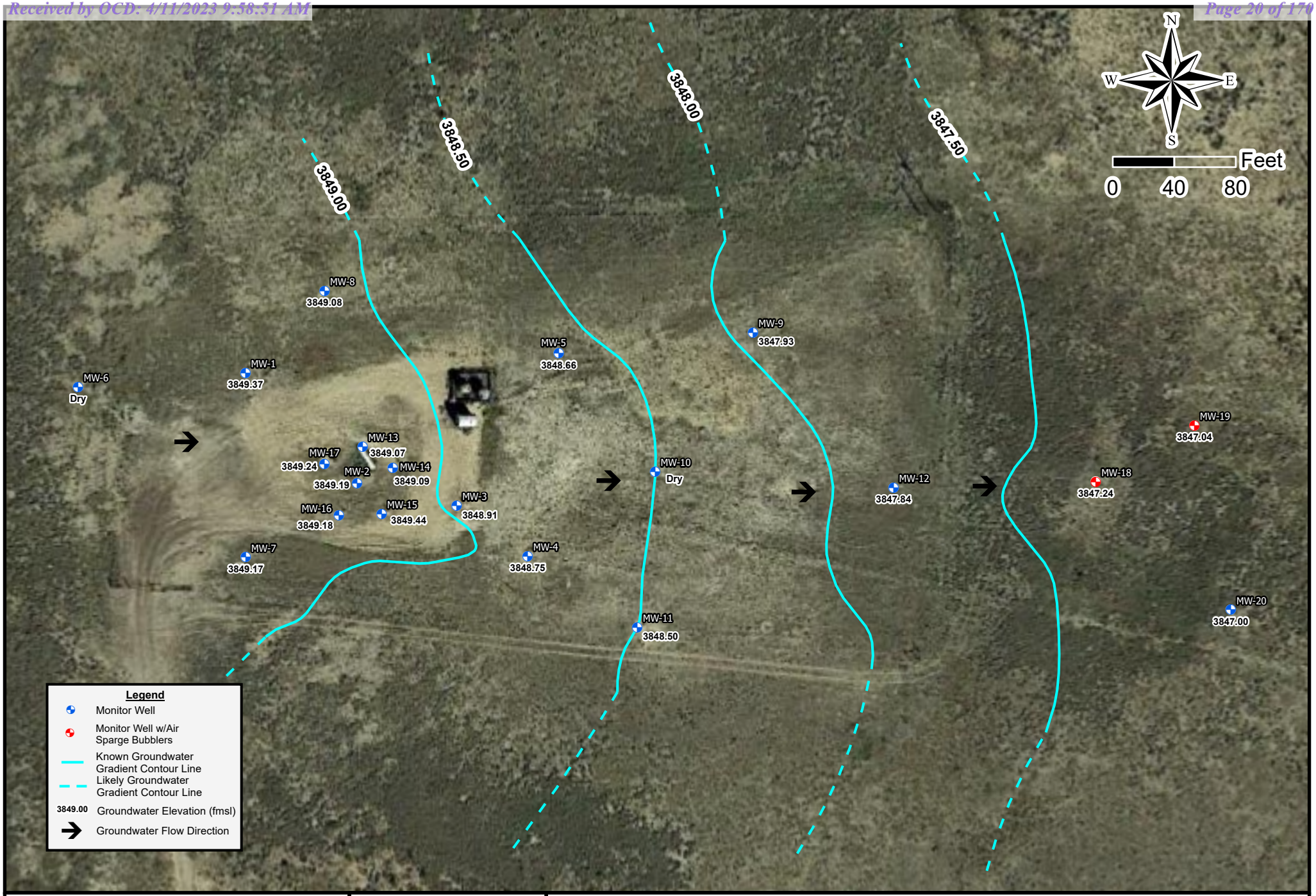
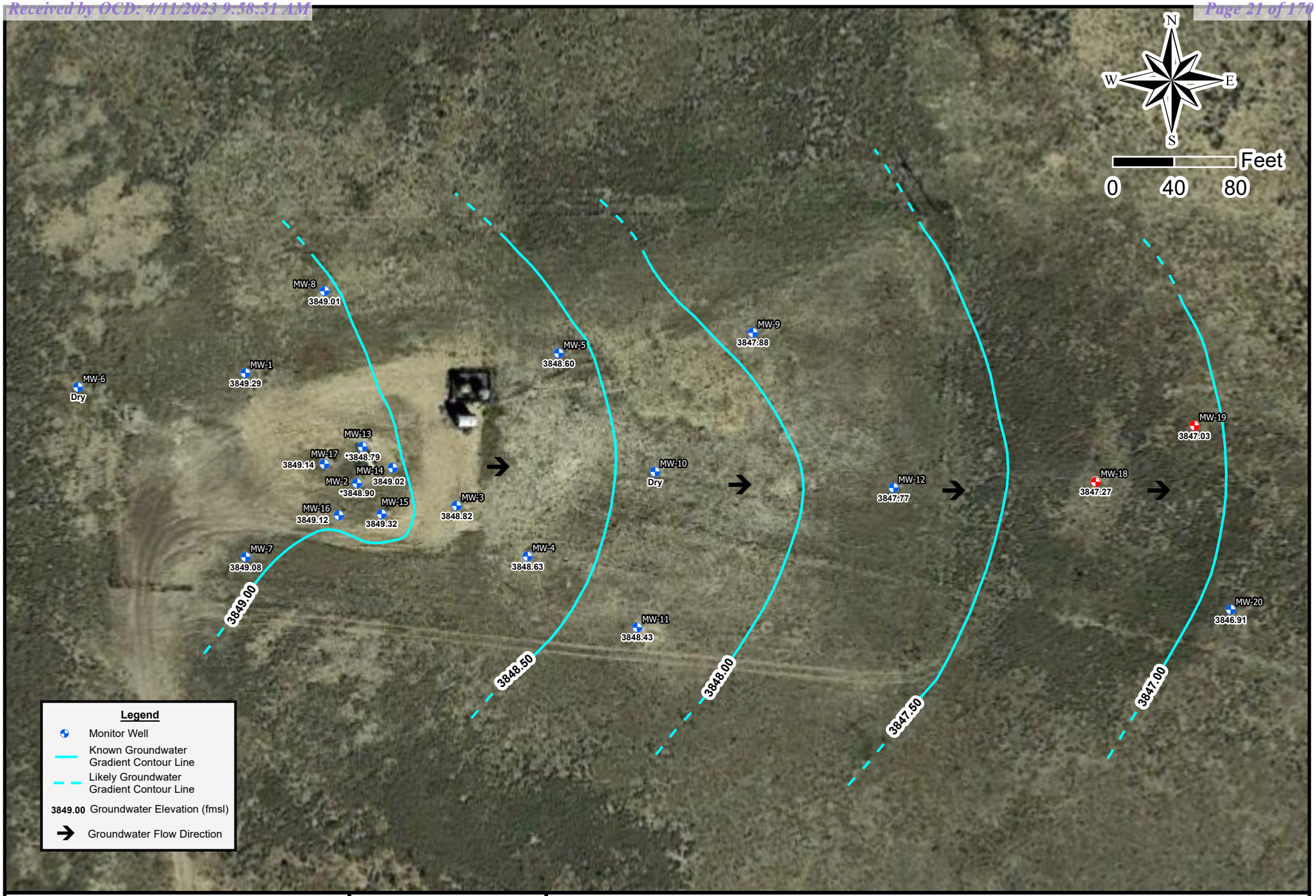
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2a - Groundwater Gradient Map (03/02/2022)




TALON LPE

Drafted: 3/2/2023
1 in = 80 ft
Drafted By: IJR

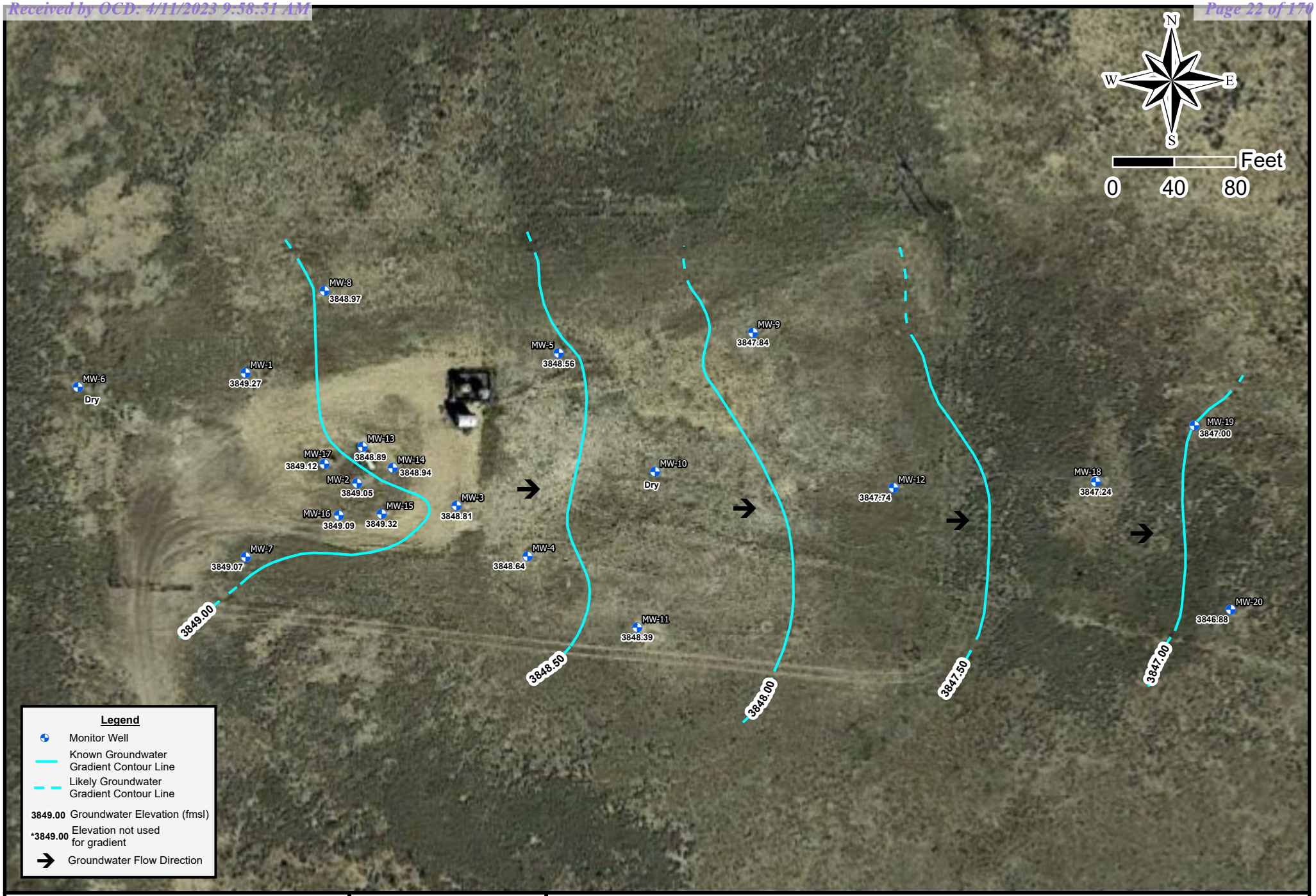
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2b - Groundwater Gradient Map (06/02/2022)




TALON LPE

Drafted: 3/30/2023
1 in = 80 ft
Drafted By: JAI

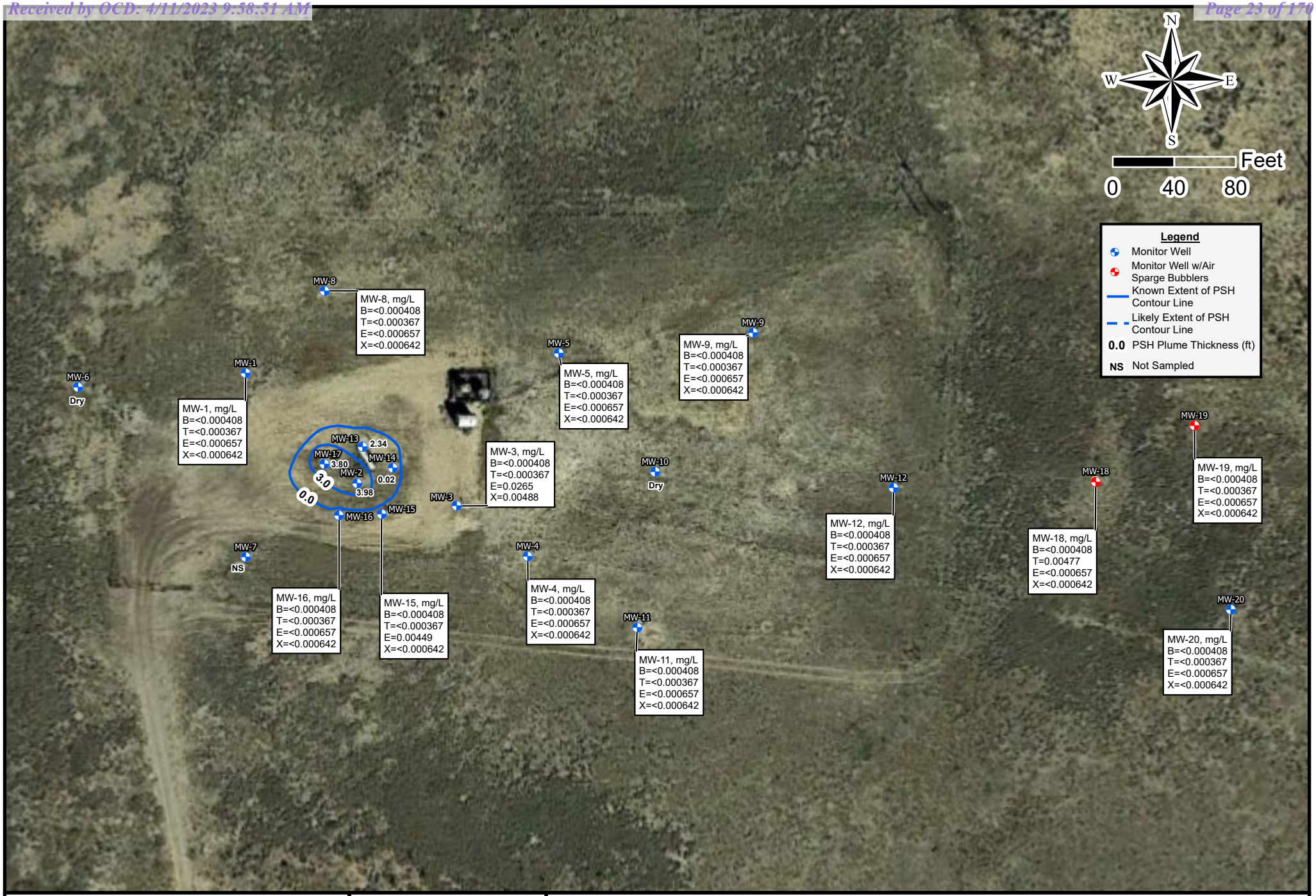
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2c - Groundwater Gradient Map (09/13/2022)




TALON LPE

Drafted: 3/6/2023
1 in = 80 ft
Drafted By: JAI

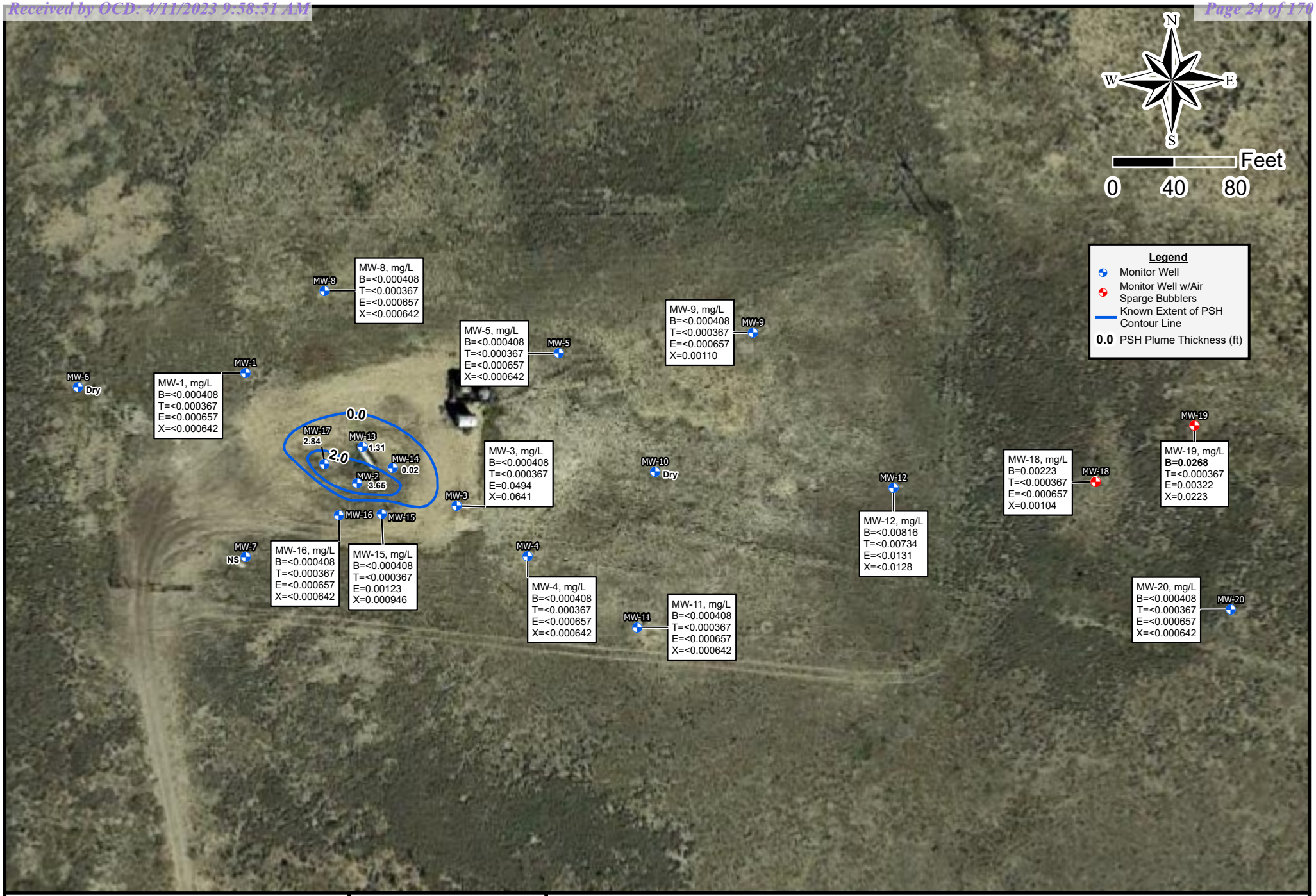
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2d - Groundwater Gradient Map (12/01/2022)




TALON LPE

Drafted: 3/6/2023
1 in = 80 ft
Drafted By: JAI

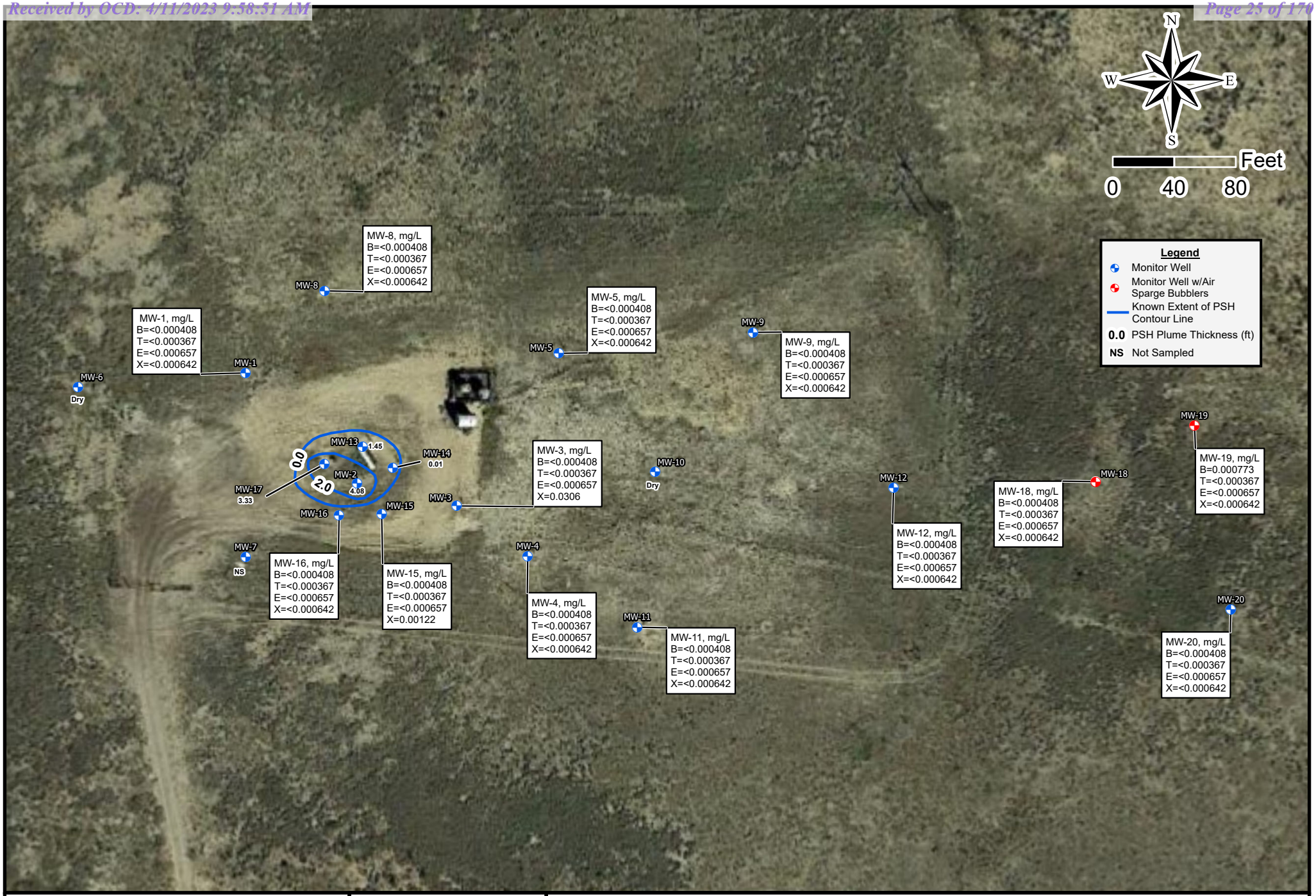
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3a - PSH Thickness and Groundwater Concentration Map (03/02-03/2022)




TALON LPE

Drafted: 3/30/2023
1 in = 80 ft
Drafted By: IJR

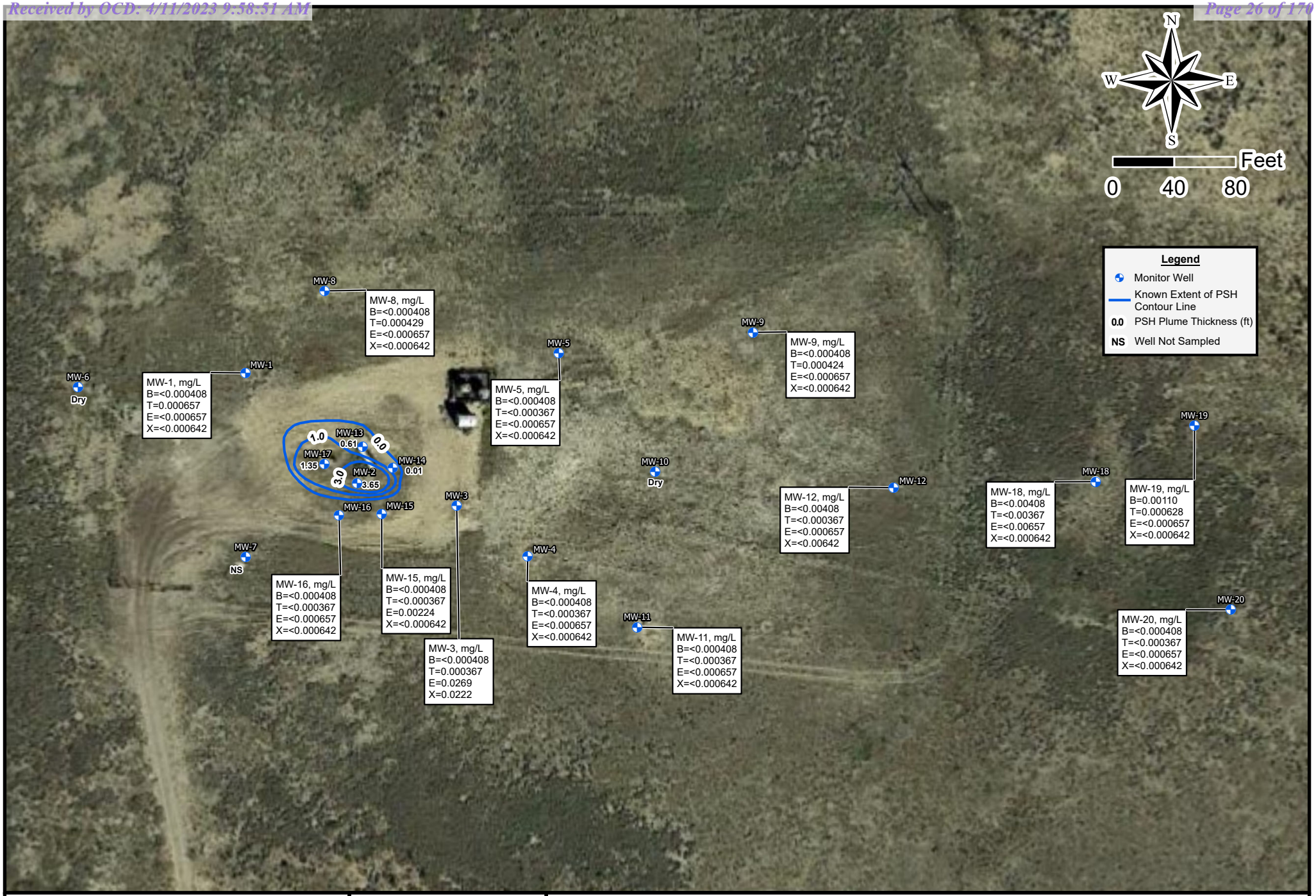
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3b - PSH Thickness and Groundwater Concentration Map (06/02-03/2022)




TALON LPE

Drafted: 3/6/2023
1 in = 80 ft
Drafted By: JAI

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3c - PSH Thickness and Groundwater Concentration Map (09/13-14/2022)




TALON LPE

Drafted: 3/6/2023
1 in = 80 ft
Drafted By: JAI

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3d - PSH Thickness and Groundwater Concentration Map (12/01-02 & 05/2022)

# APPENDIX B

## Tables

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Casing Elevation (fmsl) | Top of Screen (ft) | Bottom of Screen (ft) | Date Sampled (ft) | Depth to Water (ft) | Depth to Product (ft) | Product Thickness (ft) | Groundwater Elevation (fmsl) |
|---|---|---|---|---|---|---|---|---|
| MW-1 4" | 3915.51 | 54 | 74 | 03/08/2016 | 64.98 | - | - | 3850.53 |
| | | | | 05/24/2016 | 65.02 | - | - | 3850.49 |
| | | | | 09/08/2016 | 65.06 | - | - | 3850.45 |
| | | | | 12/05/2016 | 64.76 | - | - | 3850.75 |
| | | | | 03/08/2017 | 64.80 | - | - | 3850.71 |
| | | | | 06/13/2017 | 65.21 | - | - | 3850.30 |
| | | | | 09/12/2017 | 65.22 | - | - | 3850.29 |
| | | | | 12/13/2017 | 65.28 | - | - | 3850.23 |
| | | | | 03/23/2018 | 65.33 | - | - | 3850.18 |
| | | | | 06/12/2018 | 65.38 | - | - | 3850.13 |
| | | | | 09/10/2018 | 65.34 | - | - | 3850.17 |
| | | | | 12/11/2018 | 65.49 | - | - | 3850.02 |
| | | | | 03/13/2019 | 65.54 | - | - | 3849.97 |
| | | | | 06/10/2019 | 64.59 | - | - | 3850.92 |
| | | | | 09/25/2019 | 65.83 | - | - | 3849.68 |
| | | | | 12/06/2019 | 65.65 | - | - | 3849.86 |
| | | | | 03/11/2020 | 65.73 | - | - | 3849.78 |
| | | | | 05/06/2020 | 65.70 | - | - | 3849.81 |
| | | | | 06/09/2020 | 65.77 | - | - | 3849.74 |
| | | | | 09/04/2020 | 65.83 | - | - | 3849.68 |
| | | | | 12/11/2020 | 65.84 | - | - | 3849.67 |
| | | | | 03/16/2021 | 65.85 | - | - | 3849.66 |
| | | | | 06/11/2021 | 65.94 | - | - | 3849.57 |
| | | | | 09/01/2021 | 65.98 | - | - | 3849.53 |
| | | | | 11/29/2021 | 66.04 | - | - | 3849.47 |
| | | | | 03/02/2022 | 66.09 | - | - | 3849.42 |
| | | | | 06/02/2022 | 66.14 | - | - | 3849.37 |
| | | | | 09/13/2022 | 66.22 | - | - | 3849.29 |
| | | | | 12/01/2022 | 66.24 | - | - | 3849.27 |
| MW-2 4" | 3915.04 | 54 | 74 | 03/08/2016 | 68.80 | 63.91 | 4.89 | 3850.32 |
| | | | | 05/24/2016 | 68.57 | 64.00 | 4.57 | 3850.29 |
| | | | | 09/08/2016 | 68.32 | 64.08 | 4.24 | 3850.26 |
| | | | | 12/01/2016 | 68.67 | 64.10 | 4.57 | 3850.19 |
| | | | | 03/08/2017 | 68.33 | 64.20 | 4.13 | 3850.16 |
| | | | | 06/13/2017 | 68.42 | 64.20 | 4.22 | 3850.14 |
| | | | | 09/12/2017 | 68.30 | 64.30 | 4.00 | 3850.08 |
| | | | | 12/13/2017 | 68.00 | 64.40 | 3.60 | 3850.05 |
| | | | | 03/23/2018 | 65.22 | 65.05 | 0.17 | 3849.96 |
| | | | | 06/12/2018 | 67.10 | 64.50 | 2.60 | 3850.11 |
| | | | | 09/10/2018 | 66.52 | 64.50 | 2.02 | 3850.21 |
| | | | | 12/11/2018 | 68.28 | 64.60 | 3.68 | 3849.83 |
| | | | | 03/13/2019 | 66.82 | 65.12 | 1.70 | 3849.64 |
| | | | | 06/10/2019 | DR | - | - | - |
| | | | | 12/06/2019 | DR | - | - | - |
| | | | | 03/11/2020 | 65.79 | 65.40 | 0.39 | 3849.58 |
| | | | | 05/06/2020 | 66.92 | 65.20 | 1.72 | 3849.56 |
| | | | | 06/09/2020 | DR | - | - | - |
| | | | | 09/04/2020 | 67.75 | 65.10 | 2.65 | 3849.50 |
| | | | | 12/11/2020 | 65.73 | 65.65 | 0.08 | 3849.38 |
| | | | | 03/16/2021 | DR | - | - | |
| | | | | 06/11/2021 | 68.90 | 65.09 | 3.81 | 3849.32 |
| | | | | 09/01/2021 | 68.94 | 65.10 | 3.84 | 3849.31 |
| | | | | 11/29/2021 | 67.20 | 65.55 | 1.65 | 3849.22 |
| | | | | 03/02/2022 | 69.25 | 65.27 | 3.98 | 3849.11 |
| | | | | 06/02/2022 | 68.90 | 65.25 | 3.65 | 3849.19 |
| | | | | 09/13/2022 | 69.55 | 65.47 | 4.08 | 3848.90 |
| | | | | 12/01/2022 | 69.04 | 65.39 | 3.65 | 3849.05 |
| MW-3 4" | 3915.24 | 54 | 74 | 03/08/2016 | 65.16 | - | - | 3850.08 |
| | | | | 05/24/2016 | 65.21 | - | - | 3850.03 |
| | | | | 09/08/2016 | 65.25 | - | - | 3849.99 |
| | | | | 12/05/2016 | 65.27 | - | - | 3849.97 |
| | | | | 03/08/2017 | 65.33 | - | - | 3849.91 |
| | | | | 06/13/2017 | 65.39 | - | - | 3849.85 |
| | | | | 09/12/2017 | 65.44 | - | - | 3849.80 |
| | | | | 12/13/2017 | 65.70 | - | - | 3849.54 |
| | | | | 03/23/2018 | 65.50 | - | - | 3849.74 |
| | | | | 06/12/2018 | 65.59 | - | - | 3849.65 |
| | | | | 09/10/2018 | 65.52 | - | - | 3849.72 |
| | | | | 12/11/2018 | 65.66 | - | - | 3849.58 |
| | | | | 03/13/2019 | 65.69 | - | - | 3849.55 |
| | | | | 06/10/2019 | 65.75 | - | - | 3849.49 |
| | | | | 09/25/2019 | 65.80 | - | - | 3849.44 |
| | | | | 12/06/2019 | 65.85 | - | - | 3849.39 |
| | | | | 03/11/2020 | 65.89 | - | - | 3849.35 |
| | | | | 06/09/2020 | 65.97 | - | - | 3849.27 |
| | | | | 09/04/2020 | 65.97 | - | - | 3849.27 |
| | | | | 12/11/2020 | 66.04 | - | - | 3849.20 |
| | | | | 03/16/2021 | 66.05 | - | - | 3849.19 |
| | | | | 06/11/2021 | 65.93 | - | - | 3849.31 |
| | | | | 09/01/2021 | 66.17 | - | - | 3849.07 |
| | | | | 11/29/2021 | 66.21 | - | - | 3849.03 |
| | | | | 03/02/2022 | 66.30 | - | - | 3848.94 |
| | | | | 06/02/2022 | 66.33 | - | - | 3848.91 |
| | | | | 09/13/2022 | 66.42 | - | - | 3848.82 |
| | | | | 12/01/2022 | 66.43 | - | - | 3848.81 |

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Casing Elevation (fmsl) | Top of Screen (ft) | Bottom of Screen (ft) | Date Sampled (ft) | Depth to Water (ft) | Depth to Product (ft) | Product Thickness (ft) | Groundwater Elevation (fmsl) |
|---|---|---|---|---|---|---|---|---|
| MW-4 2" | 3915.3 | 54 | 74 | 03/08/2016 | 65.41 | - | - | 3849.89 |
| | | | | 05/24/2016 | 65.44 | - | - | 3849.86 |
| | | | | 09/08/2016 | 65.47 | - | - | 3849.83 |
| | | | | 12/05/2016 | 65.50 | - | - | 3849.80 |
| | | | | 03/08/2017 | 65.55 | - | - | 3849.75 |
| | | | | 06/13/2017 | 65.61 | - | - | 3849.69 |
| | | | | 09/12/2017 | 65.64 | - | - | 3849.66 |
| | | | | 12/13/2017 | 65.70 | - | - | 3849.60 |
| | | | | 03/23/2018 | 65.73 | - | - | 3849.57 |
| | | | | 06/12/2018 | 65.81 | - | - | 3849.49 |
| | | | | 09/10/2018 | 65.74 | - | - | 3849.56 |
| | | | | 12/11/2018 | 65.90 | - | - | 3849.40 |
| | | | | 03/13/2019 | 65.96 | - | - | 3849.34 |
| | | | | 06/10/2019 | 66.00 | - | - | 3849.30 |
| | | | | 09/25/2019 | 66.04 | - | - | 3849.26 |
| | | | | 12/06/2019 | 66.13 | - | - | 3849.17 |
| | | | | 03/11/2020 | 66.17 | - | - | 3849.13 |
| | | | | 05/06/2020 | 66.12 | - | - | 3849.18 |
| | | | | 06/09/2020 | 66.18 | - | - | 3849.12 |
| | | | | 09/04/2020 | 66.23 | - | - | 3849.07 |
| | | | | 12/11/2020 | 66.27 | - | - | 3849.03 |
| | | | | 03/16/2021 | 66.30 | - | - | 3849.00 |
| | | | | 06/11/2021 | 66.78 | - | - | 3848.52 |
| | | | | 09/01/2021 | 66.40 | - | - | 3848.90 |
| | | | | 11/29/2021 | 66.45 | - | - | 3848.85 |
| | | | | 03/02/2022 | 66.53 | - | - | 3848.77 |
| | | | | 06/02/2022 | 66.55 | - | - | 3848.75 |
| | | | | 09/13/2022 | 66.67 | - | - | 3848.63 |
| | | | | 12/01/2022 | 66.66 | - | - | 3848.64 |
| MW-5 4" | 3915.26 | 54 | 74 | 03/08/2016 | 65.42 | - | - | 3849.84 |
| | | | | 05/24/2016 | 65.47 | - | - | 3849.79 |
| | | | | 09/08/2016 | 65.51 | - | - | 3849.75 |
| | | | | 12/05/2016 | 65.52 | - | - | 3849.74 |
| | | | | 03/08/2017 | 65.59 | - | - | 3849.67 |
| | | | | 06/13/2017 | 65.65 | - | - | 3849.61 |
| | | | | 09/12/2017 | 65.70 | - | - | 3849.56 |
| | | | | 12/13/2017 | 65.75 | - | - | 3849.51 |
| | | | | 03/23/2018 | 65.78 | - | - | 3849.48 |
| | | | | 06/12/2018 | 65.90 | - | - | 3849.36 |
| | | | | 09/10/2018 | 65.78 | - | - | 3849.48 |
| | | | | 12/11/2018 | 65.93 | - | - | 3849.33 |
| | | | | 03/13/2019 | 65.95 | - | - | 3849.31 |
| | | | | 06/10/2019 | 66.02 | - | - | 3849.24 |
| | | | | 09/25/2019 | 66.06 | - | - | 3849.20 |
| | | | | 12/06/2019 | 66.15 | - | - | 3849.11 |
| | | | | 03/11/2020 | 66.15 | - | - | 3849.11 |
| | | | | 05/06/2020 | 65.90 | - | - | 3849.36 |
| | | | | 06/09/2020 | 66.22 | - | - | 3849.04 |
| | | | | 09/04/2020 | 66.25 | - | - | 3849.01 |
| | | | | 12/11/2020 | 66.31 | - | - | 3848.95 |
| | | | | 03/16/2021 | 66.33 | - | - | 3848.93 |
| | | | | 06/11/2021 | 66.40 | - | - | 3848.86 |
| | | | | 09/01/2021 | 66.44 | - | - | 3848.82 |
| | | | | 11/29/2021 | 66.50 | - | - | 3848.76 |
| | | | | 03/02/2022 | 66.55 | - | - | 3848.71 |
| | | | | 06/02/2022 | 66.6 | - | - | 3848.66 |
| | | | | 09/13/2022 | 66.66 | - | - | 3848.60 |
| | | | | 12/01/2022 | 66.70 | - | - | 3848.56 |
| MW-6 2" | 3915.45 | 52 | 72 | 03/08/2016 | 64.71 | - | - | 3850.74 |
| | | | | 05/24/2016 | 64.74 | - | - | 3850.71 |
| | | | | 09/08/2016 | 64.80 | - | - | 3850.65 |
| | | | | 12/05/2016 | 64.85 | - | - | 3850.60 |
| | | | | 03/08/2017 | 64.90 | - | - | 3850.55 |
| | | | | 06/13/2017 | 64.91 | - | - | 3850.54 |
| | | | | 09/12/2017 | 64.97 | - | - | 3850.48 |
| | | | | 12/13/2017 | 65.02 | - | - | 3850.43 |
| | | | | 03/23/2018 | 65.04 | - | - | 3850.41 |
| | | | | 06/12/2018 | 65.11 | - | - | 3850.34 |
| | | | | 09/10/2018 | 65.04 | - | - | 3850.41 |
| | | | | 12/11/2018 | 65.22 | - | - | 3850.23 |
| | | | | 03/13/2019 | 65.23 | - | - | 3850.22 |
| | | | | 06/10/2019 | 68.27 | - | - | 3847.18 |
| | | | | 09/25/2019 | DR | - | - | - |
| | | | | 12/06/2019 | DR | - | - | - |
| | | | | 03/11/2020 | DR | - | - | - |
| | | | | 05/06/2020 | DR | - | - | - |
| | | | | 06/09/2020 | DR | - | - | - |
| | | | | 09/04/2020 | DR | - | - | - |
| | | | | 12/11/2020 | DR | - | - | - |
| | | | | 03/16/2021 | DR | - | - | - |
| | | | | 06/10/2021 | DR | - | - | - |
| | | | | 09/01/2021 | DR | - | - | - |
| | | | | 11/29/2021 | DR | - | - | - |
| | | | | 03/02/2022 | DR | - | - | - |
| | | | | 06/02/2022 | DR | - | - | - |
| | | | | 09/13/2022 | DR | - | - | - |
| | | | | 12/01/2022 | DR | - | - | - |

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Casing Elevation (fmsl) | Top of Screen (ft) | Bottom of Screen (ft) | Date Sampled (ft) | Depth to Water (ft) | Depth to Product (ft) | Product Thickness (ft) | Groundwater Elevation (fmsl) |
|---|---|---|---|---|---|---|---|---|
| MW-7 2" | 3914.73 | 51 | 71 | 03/08/2016 | 64.39 | - | - | 3850.34 |
| | | | | 05/24/2016 | 64.46 | - | - | 3850.27 |
| | | | | 09/08/2016 | 64.49 | - | - | 3850.24 |
| | | | | 12/05/2016 | 64.50 | - | - | 3850.23 |
| | | | | 03/08/2017 | 64.29 | - | - | 3850.44 |
| | | | | 06/13/2017 | 64.61 | - | - | 3850.12 |
| | | | | 09/12/2017 | 64.67 | - | - | 3850.06 |
| | | | | 12/13/2017 | 64.72 | - | - | 3850.01 |
| | | | | 03/23/2018 | 65.75 | - | - | 3848.98 |
| | | | | 06/12/2018 | 64.86 | - | - | 3849.87 |
| | | | | 09/10/2018 | 64.78 | - | - | 3849.95 |
| | | | | 12/11/2018 | 64.91 | - | - | 3849.82 |
| | | | | 03/13/2019 | 64.91 | - | - | 3849.82 |
| | | | | 06/10/2019 | 64.98 | - | - | 3849.75 |
| | | | | 09/25/2019 | 65.04 | - | - | 3849.69 |
| | | | | 12/06/2019 | 65.10 | - | - | 3849.63 |
| | | | | 03/11/2020 | OB | - | - | - |
| | | | | 05/06/2020 | OB | - | - | - |
| | | | | 06/09/2020 | OB | - | - | - |
| | | | | 09/04/2020 | 66.37 | - | - | 3848.36 |
| | | | | 12/11/2020 | 65.31 | - | - | 3849.42 |
| | | | | 03/16/2021 | 66.35 | - | - | 3848.38 |
| | | | | 06/11/2021 | 66.50 | - | - | 3848.23 |
| | | | | 09/01/2021 | 65.43 | - | - | 3849.30 |
| | | | | 11/29/2021 | 65.45 | - | - | 3849.28 |
| | | | | 03/02/2022 | 65.55 | - | - | 3849.18 |
| | | | | 06/02/2022 | 65.56 | - | - | 3849.17 |
| | | | | 09/13/2022 | 65.65 | - | - | 3849.08 |
| | | | | 12/01/2022 | 65.66 | - | - | 3849.07 |
| MW-8 2" | 3915.19 | 53 | 73 | 03/08/2016 | 64.95 | - | - | 3850.24 |
| | | | | 05/24/2016 | 65.00 | - | - | 3850.19 |
| | | | | 09/08/2016 | 65.04 | - | - | 3850.15 |
| | | | | 12/05/2016 | 65.07 | - | - | 3850.12 |
| | | | | 03/08/2017 | 65.10 | - | - | 3850.09 |
| | | | | 06/13/2017 | 65.17 | - | - | 3850.02 |
| | | | | 09/12/2017 | 65.21 | - | - | 3849.98 |
| | | | | 12/13/2017 | 65.26 | - | - | 3849.93 |
| | | | | 03/23/2018 | 65.28 | - | - | 3849.91 |
| | | | | 06/12/2018 | 65.36 | - | - | 3849.83 |
| | | | | 09/10/2018 | 65.31 | - | - | 3849.88 |
| | | | | 12/11/2018 | 65.45 | - | - | 3849.74 |
| | | | | 03/13/2019 | 65.49 | - | - | 3849.70 |
| | | | | 06/10/2019 | 65.52 | - | - | 3849.67 |
| | | | | 09/25/2019 | 65.60 | - | - | 3849.59 |
| | | | | 12/06/2019 | 65.83 | - | - | 3849.36 |
| | | | | 03/11/2020 | 65.68 | - | - | 3849.51 |
| | | | | 05/06/2020 | 65.68 | - | - | 3849.51 |
| | | | | 06/09/2020 | 65.74 | - | - | 3849.45 |
| | | | | 09/04/2020 | 65.74 | - | - | 3849.45 |
| | | | | 12/11/2020 | 65.81 | - | - | 3849.38 |
| | | | | 03/16/2021 | 65.83 | - | - | 3849.36 |
| | | | | 06/11/2021 | 66.10 | - | - | 3849.09 |
| | | | | 09/01/2021 | 65.94 | - | - | 3849.25 |
| | | | | 11/29/2021 | 65.98 | - | - | 3849.21 |
| | | | | 03/02/2022 | 66.10 | - | - | 3849.09 |
| | | | | 06/02/2022 | 66.11 | - | - | 3849.08 |
| | | | | 09/13/2022 | 66.18 | - | - | 3849.01 |
| | | | | 12/01/2022 | 66.22 | - | - | 3848.97 |
| MW-9 2" | 3913.92 | 55 | 75 | 03/08/2016 | 64.33 | - | - | 3849.59 |
| | | | | 05/24/2016 | 64.32 | - | - | 3849.60 |
| | | | | 09/08/2016 | 64.35 | - | - | 3849.57 |
| | | | | 12/05/2016 | 64.36 | - | - | 3849.56 |
| | | | | 03/08/2017 | 63.38 | - | - | 3850.54 |
| | | | | 06/13/2017 | 65.46 | - | - | 3848.46 |
| | | | | 09/12/2017 | 64.53 | - | - | 3849.39 |
| | | | | 12/13/2017 | 64.59 | - | - | 3849.33 |
| | | | | 03/23/2018 | 64.75 | - | - | 3849.17 |
| | | | | 06/12/2018 | 64.68 | - | - | 3849.24 |
| | | | | 09/10/2018 | 64.71 | - | - | 3849.21 |
| | | | | 12/11/2018 | 64.76 | - | - | 3849.16 |
| | | | | 03/13/2019 | 64.80 | - | - | 3849.12 |
| | | | | 06/10/2019 | 64.85 | - | - | 3849.07 |
| | | | | 09/25/2019 | 64.90 | - | - | 3849.02 |
| | | | | 12/06/2019 | 64.97 | - | - | 3848.95 |
| | | | | 03/11/2020 | 64.99 | - | - | 3848.93 |
| | | | | 05/06/2020 | 65.00 | - | - | 3848.92 |
| | | | | 06/09/2020 | 65.05 | - | - | 3848.87 |
| | | | | 09/04/2020 | 65.60 | - | - | 3848.32 |
| | | | | 12/11/2020 | 65.67 | - | - | 3848.25 |
| | | | | 03/16/2021 | 65.75 | - | - | 3848.17 |
| | | | | 06/11/2021 | 65.25 | - | - | 3848.67 |
| | | | | 09/01/2021 | 65.30 | - | - | 3848.62 |
| | | | | 11/29/2021 | 65.30 | - | - | 3848.62 |
| | | | | 03/02/2022 | 65.93 | - | - | 3847.99 |
| | | | | 06/02/2022 | 65.99 | - | - | 3847.93 |
| | | | | 09/13/2022 | 66.04 | - | - | 3847.88 |
| | | | | 12/01/2022 | 66.08 | - | - | 3847.84 |

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Casing Elevation (fmsl) | Top of Screen (ft) | Bottom of Screen (ft) | Date Sampled (ft) | Depth to Water (ft) | Depth to Product (ft) | Product Thickness (ft) | Groundwater Elevation (fmsl) |
|---|---|---|---|---|---|---|---|---|
| MW-10 2" | 3914.96 | 53 | 73 | 03/08/2016 | 65.32 | - | - | 3849.64 |
| | | | | 05/24/2016 | 65.40 | - | - | 3849.56 |
| | | | | 09/08/2016 | 65.41 | - | - | 3849.55 |
| | | | | 12/05/2016 | 65.48 | - | - | 3849.48 |
| | | | | 03/08/2017 | 65.50 | - | - | 3849.46 |
| | | | | 06/13/2017 | 65.54 | - | - | 3849.42 |
| | | | | 09/12/2017 | 65.46 | - | - | 3849.50 |
| | | | | 12/13/2017 | 65.66 | - | - | 3849.30 |
| | | | | 03/23/2018 | 65.64 | - | - | 3849.32 |
| | | | | 06/12/2018 | 65.30 | - | - | 3849.66 |
| | | | | 09/10/2018 | 65.72 | - | - | 3849.24 |
| | | | | 12/11/2018 | 65.82 | - | - | 3849.14 |
| | | | | 03/13/2019 | 65.87 | - | - | 3849.09 |
| | | | | 06/10/2019 | 65.92 | - | - | 3849.04 |
| | | | | 09/25/2019 | 65.97 | - | - | 3848.99 |
| | | | | 12/06/2019 | 66.02 | - | - | 3848.94 |
| | | | | 03/11/2020 | 66.05 | - | - | 3848.91 |
| | | | | 05/06/2020 | 66.00 | - | - | 3848.96 |
| | | | | 06/09/2020 | 66.07 | - | - | 3848.89 |
| | | | | 09/04/2020 | 66.98 | - | - | 3847.98 |
| | | | | 12/11/2020 | DR | - | - | - |
| | | | | 03/16/2021 | DR | - | - | - |
| | | | | 06/11/2021 | DR | - | - | - |
| | | | | 09/01/2021 | DR | - | - | - |
| | | | | 11/29/2021 | DR | - | - | - |
| | | | | 03/02/2022 | DR | - | - | - |
| | | | | 06/02/2022 | DR | - | - | - |
| | | | | 09/13/2022 | DR | - | - | - |
| | | | | 12/01/2022 | DR | - | - | - |
| MW-11 2" | 3914.4 | 52 | 72 | 03/08/2016 | 64.70 | - | - | 3849.70 |
| | | | | 05/24/2016 | 65.77 | - | - | 3848.63 |
| | | | | 09/08/2016 | 64.80 | - | - | 3849.60 |
| | | | | 12/05/2016 | 64.81 | - | - | 3849.59 |
| | | | | 03/08/2017 | 64.90 | - | - | 3849.50 |
| | | | | 06/13/2017 | 64.93 | - | - | 3849.47 |
| | | | | 09/12/2017 | 64.97 | - | - | 3849.43 |
| | | | | 12/13/2017 | 65.04 | - | - | 3849.36 |
| | | | | 03/23/2018 | 65.03 | - | - | 3849.37 |
| | | | | 06/12/2018 | 65.19 | - | - | 3849.21 |
| | | | | 09/10/2018 | 65.08 | - | - | 3849.32 |
| | | | | 12/11/2018 | 65.21 | - | - | 3849.19 |
| | | | | 03/13/2019 | 65.25 | - | - | 3849.15 |
| | | | | 06/10/2019 | 65.34 | - | - | 3849.06 |
| | | | | 09/25/2019 | 65.36 | - | - | 3849.04 |
| | | | | 12/06/2019 | 65.43 | - | - | 3848.97 |
| | | | | 03/11/2020 | 65.47 | - | - | 3848.93 |
| | | | | 05/06/2020 | 65.45 | - | - | 3848.95 |
| | | | | 06/09/2020 | 65.47 | - | - | 3848.93 |
| | | | | 09/04/2020 | 65.52 | - | - | 3848.88 |
| | | | | 12/11/2020 | 65.80 | - | - | 3848.60 |
| | | | | 03/16/2021 | 65.63 | - | - | 3848.77 |
| | | | | 06/11/2021 | 68.99 | - | - | 3845.41 |
| | | | | 09/01/2021 | 65.74 | - | - | 3848.66 |
| | | | | 11/29/2021 | 65.80 | - | - | 3848.60 |
| | | | | 03/02/2022 | 65.90 | - | - | 3848.5 |
| | | | | 06/02/2022 | 65.90 | - | - | 3848.50 |
| | | | | 09/13/2022 | 65.97 | - | - | 3848.43 |
| | | | | 12/01/2022 | 66.01 | - | - | 3848.39 |
| MW-12 2" | 3913.97 | 58 | 78 | 03/08/2016 | 64.93 | - | - | 3849.04 |
| | | | | 05/24/2016 | 64.98 | - | - | 3848.99 |
| | | | | 09/08/2016 | 65.02 | - | - | 3848.95 |
| | | | | 12/05/2016 | 65.05 | - | - | 3848.92 |
| | | | | 03/08/2017 | 65.07 | - | - | 3848.90 |
| | | | | 06/13/2017 | 65.18 | - | - | 3848.79 |
| | | | | 09/12/2017 | 64.95 | - | - | 3849.02 |
| | | | | 12/13/2017 | 64.76 | - | - | 3849.21 |
| | | | | 03/23/2018 | 64.45 | - | - | 3849.52 |
| | | | | 06/12/2018 | 65.20 | - | - | 3848.77 |
| | | | | 09/10/2018 | 65.31 | - | - | 3848.66 |
| | | | | 12/11/2018 | 65.45 | - | - | 3848.52 |
| | | | | 03/13/2019 | 65.46 | - | - | 3848.51 |
| | | | | 06/10/2019 | 65.57 | - | - | 3848.40 |
| | | | | 09/25/2019 | 65.59 | - | - | 3848.38 |
| | | | | 12/06/2019 | 65.67 | - | - | 3848.30 |
| | | | | 03/11/2020 | 65.68 | - | - | 3848.29 |
| | | | | 05/06/2020 | 65.70 | - | - | 3848.27 |
| | | | | 06/09/2020 | 65.71 | - | - | 3848.26 |
| | | | | 09/04/2020 | 67.75 | - | - | 3846.22 |
| | | | | 12/11/2020 | 65.83 | - | - | 3848.14 |
| | | | | 03/16/2021 | 65.83 | - | - | 3848.14 |
| | | | | 06/11/2021 | 65.94 | - | - | 3848.03 |
| | | | | 09/01/2021 | 66.00 | - | - | 3847.97 |
| | | | | 11/29/2021 | 66.00 | - | - | 3847.97 |
| | | | | 03/02/2022 | 66.10 | - | - | 3847.87 |
| | | | | 06/02/2022 | 66.13 | - | - | 3847.84 |
| | | | | 09/13/2022 | 66.20 | - | - | 3847.77 |
| | | | | 12/01/2022 | 66.23 | - | - | 3847.74 |

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Casing Elevation (fmsl) | Top of Screen (ft) | Bottom of Screen (ft) | Date Sampled (ft) | Depth to Water (ft) | Depth to Product (ft) | Product Thickness (ft) | Groundwater Elevation (fmsl) |
|---|---|---|---|---|---|---|---|---|
| MW-13 4" | 3915.83 | 54 | 79 | 03/08/2016 | 67.60 | 65.10 | 2.50 | 3850.32 |
| | | | | 05/24/2016 | 66.69 | 65.31 | 1.38 | 3850.29 |
| | | | | 09/08/2016 | 66.53 | 65.42 | 1.11 | 3850.23 |
| | | | | 12/01/2016 | 66.94 | 65.41 | 1.53 | 3850.17 |
| | | | | 03/08/2017 | 66.80 | 65.42 | 1.38 | 3850.18 |
| | | | | 06/13/2017 | 66.45 | 65.57 | 0.88 | 3850.11 |
| | | | | 09/12/2017 | 66.45 | 65.58 | 0.87 | 3850.11 |
| | | | | 12/13/2017 | 66.20 | 65.71 | 0.49 | 3850.04 |
| | | | | 03/23/2018 | 65.81 | 65.80 | 0.01 | 3850.03 |
| | | | | 06/12/2018 | 66.55 | 65.80 | 0.75 | 3849.91 |
| | | | | 09/10/2018 | 65.88 | 65.78 | 0.10 | 3850.03 |
| | | | | 12/11/2018 | 67.00 | 65.80 | 1.20 | 3849.83 |
| | | | | 03/13/2019 | 66.27 | 66.12 | 0.15 | 3849.69 |
| | | | | 06/10/2019 | 67.20 | 66.00 | 1.20 | 3849.63 |
| | | | | 09/25/2019 | 66.55 | 66.04 | 0.51 | 3849.71 |
| | | | | 12/06/2019 | 66.80 | 66.25 | 0.55 | 3849.49 |
| | | | | 03/11/2020 | 66.30 | 66.24 | 0.06 | 3849.58 |
| | | | | 05/06/2020 | 66.35 | 66.20 | 0.15 | 3849.61 |
| | | | | 06/09/2020 | 66.86 | 66.10 | 0.76 | 3849.60 |
| | | | | 09/04/2020 | DR | - | - | - |
| | | | | 12/11/2020 | 66.55 | 66.54 | 0.01 | 3849.29 |
| | | | | 03/16/2021 | 67.50 | 66.40 | 1.10 | 3849.25 |
| | | | | 06/11/2021 | 67.10 | 66.40 | 0.70 | 3849.31 |
| | | | | 09/01/2021 | 67.15 | 66.35 | 0.80 | 3849.35 |
| | | | | 11/29/2021 | 66.83 | 66.80 | 0.03 | 3849.03 |
| | | | | 03/02/2022 | 68.57 | 66.23 | 2.34 | 3849.21 |
| | | | | 06/02/2022 | 67.85 | 66.54 | 1.31 | 3849.07 |
| | | | | 09/13/2022 | 68.25 | 66.80 | 1.45 | 3848.79 |
| | | | | 12/01/2022 | 67.45 | 66.84 | 0.61 | 3848.89 |
| MW-14 4" | 3915.72 | 53 | 78 | 03/08/2016 | 68.35 | 64.91 | 3.44 | 3850.24 |
| | | | | 05/24/2016 | 65.62 | 65.49 | 0.13 | 3850.21 |
| | | | | 09/08/2016 | 65.73 | 65.54 | 0.19 | 3850.15 |
| | | | | 12/01/2016 | 66.31 | 65.50 | 0.81 | 3850.09 |
| | | | | 03/08/2017 | 66.25 | 65.50 | 0.75 | 3850.10 |
| | | | | 06/13/2017 | 66.72 | 65.50 | 1.22 | 3850.02 |
| | | | | 09/12/2017 | 67.05 | 65.50 | 1.55 | 3849.96 |
| | | | | 12/13/2017 | 66.90 | 65.45 | 1.45 | 3850.03 |
| | | | | 03/23/2018 | 67.75 | 65.42 | 2.33 | 3849.92 |
| | | | | 06/12/2018 | 68.09 | 65.49 | 2.60 | 3849.80 |
| | | | | 09/10/2018 | 65.19 | 65.18 | 0.01 | 3850.54 |
| | | | | 12/11/2018 | 66.08 | 65.95 | 0.13 | 3849.75 |
| | | | | 03/13/2019 | 66.05 | 66.03 | 0.02 | 3849.69 |
| | | | | 06/10/2019 | 66.12 | 66.08 | 0.04 | 3849.63 |
| | | | | 09/25/2019 | 66.12 | 66.10 | 0.02 | 3849.62 |
| | | | | 12/06/2019 | 66.20 | 66.17 | 0.03 | 3849.55 |
| | | | | 03/11/2020 | 66.25 | 66.20 | 0.05 | 3849.51 |
| | | | | 05/06/2020 | 66.25 | 66.20 | 0.05 | 3849.51 |
| | | | | 06/09/2020 | 66.27 | 66.22 | 0.05 | 3849.49 |
| | | | | 09/04/2020 | 66.30 | 66.29 | 0.01 | 3849.43 |
| | | | | 12/11/2020 | 66.37 | 66.36 | 0.01 | 3849.36 |
| | | | | 03/16/2021 | 66.40 | 66.38 | 0.02 | 3849.34 |
| | | | | 06/11/2021 | 66.46 | 66.44 | 0.02 | 3849.28 |
| | | | | 09/01/2021 | 66.48 | 66.47 | 0.01 | 3849.25 |
| | | | | 11/29/2021 | 66.56 | 66.52 | 0.04 | 3849.19 |
| | | | | 03/02/2022 | 66.60 | 66.58 | 0.02 | 3849.14 |
| | | | | 06/02/2022 | 66.65 | 66.63 | 0.02 | 3849.09 |
| | | | | 09/13/2022 | 66.71 | 66.70 | 0.01 | 3849.02 |
| | | | | 12/01/2022 | 66.79 | 66.78 | 0.01 | 3848.94 |
| MW-15 4" | 3915.84 | 54 | 79 | 03/08/2016 | 65.81 | 65.20 | 0.61 | 3850.54 |
| | | | | 05/24/2016 | 65.87 | 65.21 | 0.66 | 3850.52 |
| | | | | 09/08/2016 | 65.42 | 65.36 | 0.06 | 3850.47 |
| | | | | 12/01/2016 | 65.48 | 65.42 | 0.06 | 3850.41 |
| | | | | 03/08/2017 | 65.45 | 65.40 | 0.05 | 3850.43 |
| | | | | 06/13/2017 | 65.68 | 65.46 | 0.22 | 3850.34 |
| | | | | 09/12/2017 | 65.57 | 65.52 | 0.05 | 3850.31 |
| | | | | 12/13/2017 | 65.65 | 65.59 | 0.06 | 3850.24 |
| | | | | 03/23/2018 | 65.68 | 65.59 | 0.09 | 3850.24 |
| | | | | 06/12/2018 | 65.80 | 65.65 | 0.15 | 3850.17 |
| | | | | 09/10/2018 | 65.61 | - | - | 3850.23 |
| | | | | 12/11/2018 | 65.77 | - | - | 3850.07 |
| | | | | 03/13/2019 | 65.79 | - | - | 3850.05 |
| | | | | 06/10/2019 | 65.84 | - | - | 3850.00 |
| | | | | 09/25/2019 | 65.90 | - | - | 3849.94 |
| | | | | 12/06/2019 | 65.97 | - | - | 3849.87 |
| | | | | 03/11/2020 | 66.00 | - | - | 3849.84 |
| | | | | 05/06/2020 | 66.00 | - | - | 3849.84 |
| | | | | 06/09/2020 | 66.08 | - | - | 3849.76 |
| | | | | 09/04/2020 | 66.05 | - | - | 3849.79 |
| | | | | 12/11/2020 | 66.12 | - | - | 3849.72 |
| | | | | 03/16/2021 | 66.15 | - | - | 3849.69 |
| | | | | 06/11/2021 | 65.89 | - | - | 3849.95 |
| | | | | 09/01/2021 | 66.26 | - | - | 3849.58 |
| | | | | 11/29/2021 | 66.30 | - | - | 3849.54 |
| | | | | 03/02/2022 | 66.40 | - | - | 3849.44 |
| | | | | 06/02/2022 | 66.40 | - | - | 3849.44 |
| | | | | 09/13/2022 | 66.52 | - | - | 3849.32 |
| | | | | 12/01/2022 | 66.52 | - | - | 3849.32 |

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Casing Elevation (fmsl) | Top of Screen (ft) | Bottom of Screen (ft) | Date Sampled (ft) | Depth to Water (ft) | Depth to Product (ft) | Product Thickness (ft) | Groundwater Elevation (fmsl) |
|---|---|---|---|---|---|---|---|---|
| MW-16 4" | 3915.43 | 54 | 79 | 03/08/2016 | 65.78 | 65.00 | 0.78 | 3850.30 |
| | | | | 05/24/2016 | 65.85 | 65.00 | 0.85 | 3850.29 |
| | | | | 09/08/2016 | 65.23 | 65.20 | 0.03 | 3850.23 |
| | | | | 12/01/2016 | 65.32 | 65.23 | 0.09 | 3850.19 |
| | | | | 03/08/2017 | 65.27 | 65.21 | 0.06 | 3850.21 |
| | | | | 06/13/2017 | 65.35 | 65.29 | 0.06 | 3850.13 |
| | | | | 09/12/2017 | 65.40 | 65.33 | 0.07 | 3850.09 |
| | | | | 12/13/2017 | 65.44 | 65.38 | 0.06 | 3850.04 |
| | | | | 03/23/2018 | 65.48 | 65.40 | 0.08 | 3850.02 |
| | | | | 06/12/2018 | 65.65 | 65.45 | 0.20 | 3849.95 |
| | | | | 09/10/2018 | 65.45 | - | - | 3849.98 |
| | | | | 12/11/2018 | 65.60 | - | - | 3849.83 |
| | | | | 03/13/2019 | 65.60 | - | - | 3849.83 |
| | | | | 06/10/2019 | 65.65 | - | - | 3849.78 |
| | | | | 09/25/2019 | 65.75 | - | - | 3849.68 |
| | | | | 12/06/2019 | 65.86 | - | - | 3849.57 |
| | | | | 03/11/2020 | 65.81 | - | - | 3849.62 |
| | | | | 05/06/2020 | 65.82 | - | - | 3849.61 |
| | | | | 06/09/2020 | 65.87 | - | - | 3849.56 |
| | | | | 09/04/2020 | 65.90 | - | - | 3849.53 |
| | | | | 12/11/2020 | 65.96 | - | - | 3849.47 |
| | | | | 03/16/2021 | 65.97 | - | - | 3849.46 |
| | | | | 06/11/2021 | 66.83 | - | - | 3848.60 |
| | | | | 09/01/2021 | 66.07 | - | - | 3849.36 |
| | | | | 11/29/2021 | 66.12 | - | - | 3849.31 |
| | | | | 03/02/2022 | 66.25 | - | - | 3849.18 |
| | | | | 06/02/2022 | 66.25 | - | - | 3849.18 |
| | | | | 09/13/2022 | 66.31 | - | - | 3849.12 |
| | | | | 12/01/2022 | 66.34 | - | - | 3849.09 |
| MW-17 4" | 3915.59 | 58 | 78 | 03/08/2016 | 68.59 | 64.51 | 4.08 | 3850.41 |
| | | | | 05/24/2016 | 67.19 | 64.85 | 2.34 | 3850.35 |
| | | | | 09/08/2016 | 66.61 | 65.04 | 1.57 | 3850.29 |
| | | | | 12/01/2016 | 67.28 | 65.96 | 1.32 | 3849.41 |
| | | | | 03/08/2017 | 66.97 | 65.03 | 1.94 | 3850.24 |
| | | | | 06/13/2017 | 66.65 | 65.14 | 1.51 | 3850.20 |
| | | | | 09/12/2017 | 66.43 | 65.28 | 1.15 | 3850.12 |
| | | | | 12/13/2017 | 66.07 | 65.40 | 0.67 | 3850.08 |
| | | | | 03/23/2018 | 65.64 | 65.51 | 0.13 | 3850.06 |
| | | | | 06/12/2018 | 66.50 | 65.44 | 1.06 | 3849.98 |
| | | | | 09/10/2018 | 66.59 | 65.38 | 1.21 | 3850.01 |
| | | | | 12/11/2018 | 67.24 | 65.40 | 1.84 | 3849.89 |
| | | | | 03/13/2019 | 66.19 | 65.84 | 0.35 | 3849.69 |
| | | | | 06/10/2019 | 67.21 | 65.50 | 1.71 | 3849.81 |
| | | | | 09/25/2019 | 66.55 | 65.68 | 0.87 | 3849.77 |
| | | | | 12/06/2019 | 65.87 | 65.70 | 0.17 | 3849.86 |
| | | | | 03/11/2020 | 66.05 | 65.91 | 0.14 | 3849.66 |
| | | | | 05/06/2020 | 66.25 | 65.85 | 0.4 | 3849.67 |
| | | | | 06/09/2020 | 67.81 | 65.80 | 2.01 | 3849.46 |
| | | | | 09/04/2020 | 66.70 | 65.85 | 0.85 | 3849.60 |
| | | | | 12/11/2020 | 66.16 | 66.14 | 0.02 | 3849.45 |
| | | | | 03/16/2021 | 68.20 | 65.79 | 2.41 | 3849.40 |
| | | | | 06/11/2021 | 68.07 | 65.78 | 2.29 | 3849.43 |
| | | | | 09/01/2021 | 67.94 | 65.82 | 2.12 | 3849.42 |
| | | | | 11/29/2021 | 66.63 | 66.18 | 0.45 | 3849.34 |
| | | | | 03/02/2022 | 69.45 | 65.65 | 3.8 | 3849.31 |
| | | | | 06/02/2022 | 68.72 | 65.88 | 2.84 | 3849.24 |
| | | | | 09/13/2022 | 69.23 | 65.90 | 3.33 | 3849.14 |
| | | | | 12/01/2022 | 67.60 | 66.25 | 1.35 | 3849.12 |
| MW-18 4" | 3912.9 | 55 | 80 | 03/08/2016 | 64.19 | - | - | 3848.71 |
| | | | | 05/24/2016 | 63.45 | - | - | 3849.45 |
| | | | | 09/08/2016 | 64.50 | - | - | 3848.40 |
| | | | | 12/05/2016 | 64.62 | - | - | 3848.28 |
| | | | | 03/08/2017 | 64.50 | - | - | 3848.40 |
| | | | | 06/13/2017 | 64.70 | - | - | 3848.20 |
| | | | | 09/12/2017 | 63.83 | - | - | 3849.07 |
| | | | | 12/13/2017 | 64.66 | - | - | 3848.24 |
| | | | | 03/23/2018 | 64.69 | - | - | 3848.21 |
| | | | | 06/12/2018 | 64.75 | - | - | 3848.15 |
| | | | | 09/10/2018 | 65.85 | - | - | 3847.05 |
| | | | | 12/11/2018 | 64.87 | - | - | 3848.03 |
| | | | | 03/13/2019 | 64.90 | - | - | 3848.00 |
| | | | | 06/10/2019 | 64.97 | - | - | 3847.93 |
| | | | | 09/25/2019 | 65.01 | - | - | 3847.89 |
| | | | | 12/06/2019 | 66.10 | - | - | 3846.80 |
| | | | | 03/11/2020 | 65.18 | - | - | 3847.72 |
| | | | | 05/06/2020 | 65.10 | - | - | 3847.80 |
| | | | | 06/09/2020 | 66.10 | - | - | 3846.80 |
| | | | | 09/04/2020 | 65.25 | - | - | 3847.65 |
| | | | | 12/11/2020 | 66.24 | - | - | 3846.66 |
| | | | | 03/16/2021 | 65.30 | - | - | 3847.60 |
| | | | | 06/10/2021 | 65.48 | - | - | 3847.42 |
| | | | | 09/01/2021 | 65.40 | - | - | 3847.50 |
| | | | | 11/29/2021 | 65.50 | - | - | 3847.40 |
| | | | | 03/02/2022 | 65.84 | - | - | 3847.06 |
| | | | | 06/02/2022 | 65.66 | - | - | 3847.24 |
| | | | | 09/13/2022 | 65.63 | - | - | 3847.27 |
| | | | | 12/01/2022 | 65.66 | - | - | 3847.24 |

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Casing Elevation (fmsl) | Top of Screen (ft) | Bottom of Screen (ft) | Date Sampled (ft) | Depth to Water (ft) | Depth to Product (ft) | Product Thickness (ft) | Groundwater Elevation (fmsl) |
|---|---|---|---|---|---|---|---|---|
| MW-19 4" | 3913.35 | 60 | 80 | 09/10/2018 | 65.41 | - | - | 3847.94 |
| | | | | 12/11/2018 | 65.55 | - | - | 3847.80 |
| | | | | 03/13/2019 | 65.58 | - | - | 3847.77 |
| | | | | 06/10/2019 | 65.65 | - | - | 3847.70 |
| | | | | 09/25/2019 | 65.68 | - | - | 3847.67 |
| | | | | 12/06/2019 | 65.75 | - | - | 3847.60 |
| | | | | 03/11/2020 | 65.80 | - | - | 3847.55 |
| | | | | 05/06/2020 | 65.80 | - | - | 3847.55 |
| | | | | 06/09/2020 | 65.82 | - | - | 3847.53 |
| | | | | 09/04/2020 | 65.90 | - | - | 3847.45 |
| | | | | 12/11/2020 | 65.92 | - | - | 3847.43 |
| | | | | 03/16/2021 | 64.95 | - | - | 3848.40 |
| | | | | 06/10/2021 | 66.05 | - | - | 3847.30 |
| | | | | 09/01/2021 | 66.12 | - | - | 3847.23 |
| | | | | 11/29/2021 | 66.10 | - | - | 3847.25 |
| | | | | 03/02/2022 | 66.30 | - | - | 3847.05 |
| | | | | 06/02/2022 | 66.31 | - | - | 3847.04 |
| | | | | 09/13/2022 | 66.32 | - | - | 3847.03 |
| | | | | 12/01/2022 | 66.35 | - | - | 3847.00 |
| MW-20 4" | 3912.13 | 60 | 80 | 09/10/2018 | 64.31 | - | - | 3847.82 |
| | | | | 12/11/2018 | 65.45 | - | - | 3846.68 |
| | | | | 03/13/2019 | 64.48 | - | - | 3847.65 |
| | | | | 06/10/2019 | 65.57 | - | - | 3846.56 |
| | | | | 09/25/2019 | 65.60 | - | - | 3846.53 |
| | | | | 12/06/2019 | 64.66 | - | - | 3847.47 |
| | | | | 03/11/2020 | 64.69 | - | - | 3847.44 |
| | | | | 05/06/2020 | 64.68 | - | - | 3847.45 |
| | | | | 06/09/2020 | 64.71 | - | - | 3847.42 |
| | | | | 09/04/2020 | 64.76 | - | - | 3847.37 |
| | | | | 12/11/2020 | 64.82 | - | - | 3847.31 |
| | | | | 03/16/2021 | 64.85 | - | - | 3847.28 |
| | | | | 06/10/2021 | 64.94 | - | - | 3847.19 |
| | | | | 09/01/2021 | 65.00 | - | - | 3847.13 |
| | | | | 11/29/2021 | 65.00 | - | - | 3847.13 |
| | | | | 03/02/2022 | 65.10 | - | - | 3847.03 |
| | | | | 06/02/2022 | 65.13 | - | - | 3847.00 |
| | | | | 09/13/2022 | 65.22 | - | - | 3846.91 |
| | | | | 12/01/2022 | 65.25 | - | - | 3846.88 |

Specific Gravity: 0.75
Notes:
fmsl = Feet above mean sea level
DR = Well dry
DS = Well destroyed
NG = Well not gauged
NL = Well not located
NSA = No access
OB = Obstruction in well
PA = Well plugged and abandoned

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Date Sampled | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) | Total BTEX (mg/L) |
|---|---|---|---|---|---|---|
| **NMWQCC - Groundwater** | | 0.010 | 0.750 | 0.750 | 0.620 | - |
| MW-1 | 03/08/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 05/24/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 09/08/2016 | <0.000504 | <0.000621 | <0.000763 | <0.000256 | - |
| | 12/05/2016 | <0.000408 | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/13/2017 | 0.000700 J | <0.00100 | <0.000657 | <0.000642 | 0.000700 J |
| | 09/14/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/18/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 03/26/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/12/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 09/11/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/15/2019 | 0.00442 | <0.000367 | <0.000657 | <0.00063 | 0.00442 |
| | 06/11/2019 | <0.000371 | <0.000333 | <0.000597 | <0.000572 | <0.000333 |
| | 09/26/2019 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/07/2019 | 0.00424 | <0.000367 | 0.000660 | <0.000630 | 0.00490 |
| | 03/12/2020 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/11/2020 | <0.000408 F | <0.000367 F | <0.000657 LF | <0.000630 | <0.000367 |
| | 09/10/2020 | 0.00236 | <0.000367 | <0.000657 | <0.000630 | 0.00236 |
| | 12/14/2020 | 0.000820 J | <0.002000 | 0.00270 | 0.00303 | 0.006550 |
| | 03/19/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00200 |
| | 06/11/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 09/07/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 11/29/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/02/2022 | <0.000408 | 0.000657 J *1 | <0.000657 | <0.000642 *1 | 0.000657 J |
| MW-3 | 03/08/2016 | **0.127** | <0.000238 | 0.0904 | 0.0707 | - |
| | 05/24/2016 | **0.151** | <0.000238 | 0.129 | 0.107 | - |
| | 09/08/2016 | **0.166** | <0.000621 | 0.132 | 0.123 | - |
| | 12/05/2016 | **0.261** | <0.00100 | 0.217 | 0.234 | - |
| | 03/08/2017 | **0.146** | <0.000367 | 0.143 | 0.146 | 0.435 |
| | 06/13/2017 | **0.159** | 0.00296 | 0.238 | 0.156 | 0.556 |
| | 09/14/2017 | **0.101** | <0.000367 | 0.178 | 0.129 | 0.408 |
| | 12/18/2017 | **0.0232** | 0.000750 J | 0.0325 | 0.0228 | 0.0792 |
| | 03/26/2018 | **0.0119** | 0.00131 J | 0.0241 | 0.0171 | 0.0544 |
| | 06/12/2018 | **0.0108** | <0.000512 | 0.0266 | 0.0176 | 0.0550 |
| | 09/11/2018 | **0.0132** | <0.000367 | 0.0317 | 0.0184 | 0.0633 |
| | 12/12/2018 | **0.0341** | <0.000512 | 0.0725 | 0.123 | 0.230 |
| | 03/15/2019 | **0.0189** | 0.00157 | 0.0822 | 0.120 | 0.222 |
| | 06/10/2019 | **0.0101** | <0.000342 | 0.0551 | 0.0419 | 0.107 |
| | 09/26/2019 | 0.00860 | <0.000367 | 0.0480 | 0.0380 | 0.0946 |
| | 12/07/2019 | 0.00508 | <0.000367 | 0.0360 | 0.0189 | 0.0600 |
| | 03/12/2020 | <0.000408 | <0.000367 | 0.0560 | 0.0454 | 0.101 |
| | 06/11/2020 | 0.00554 F | <0.000367 F | 0.0774 LF | 0.110 | 0.193 |
| | 09/08/2020 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/14/2020 | 0.00300 | <0.002000 | 0.0364 | 0.0597 | 0.09914 |
| | 03/19/2021 | 0.00291 | 0.000481 J | 0.0226 | 0.00208 J | 0.0281 |
| | 06/11/2021 | 0.00163 J | <0.00200 | 0.0838 | 0.107 | 0.193 |
| | 09/07/2021 | <0.00200 | <0.00200 | 0.0561 | 0.0718 | 0.128 |
| | 11/30/2021 | 0.000494 J | <0.00200 | 0.0339 | 0.0225 | 0.0569 |
| | 03/03/2022 | <0.000408 | <0.000367 | 0.0265 | 0.00488 | 0.0314 |
| | 06/03/2022 | <0.000408 | <0.000367 | 0.0494 | 0.0641 | 0.113 |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | 0.0306 | 0.0306 |
| | 12/05/2022 | <0.000408 | 0.000367 J *1 | 0.0269 | 0.0222 | 0.0494 |

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Date Sampled | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) | Total BTEX (mg/L) |
|---|---|---|---|---|---|---|
| MW-4 | 03/08/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 05/24/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 09/08/2016 | <0.000504 | <0.000621 | <0.000763 | <0.000256 | - |
| | 12/05/2016 | <0.000408 | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/13/2017 | <0.000408 | <0.00100 | <0.000657 | <0.000642 | <0.000408 |
| | 09/14/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/18/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 03/26/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/12/2018 | 0.00140 | <0.000512 | <0.000616 | <0.000270 | 0.00140 |
| | 09/11/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/15/2019 | <0.000408 | <0.000367 | 0.000980 | 0.00107 | 0.00205 |
| | 06/10/2019 | <0.000372 | <0.000335 | <0.0006 | <0.000575 | <0.000335 |
| | 09/26/2019 | 0.00619 | <0.000367 | <0.000657 | <0.000630 | 0.00619 |
| | 12/07/2019 | 0.000710 | <0.000367 | <0.000657 | <0.000630 | 0.000710 |
| | 03/11/2020 | **0.0123** | <0.000367 | <0.000657 | <0.000630 | 0.0123 |
| | 06/11/2020 | <0.000408 F | <0.000367 F | <0.000657 LF | <0.000630 | <0.000367 |
| | 09/08/2020 | **0.0132** | <0.000367 | 0.0497 | 0.0722 | 0.135 |
| | 12/14/2020 | 0.00110 J | <0.002000 | 0.00457 | 0.00659 | 0.01226 |
| | 03/18/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00200 |
| | 06/11/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 09/07/2021 | <0.00200 | <0.00200 | 0.00157 J | 0.00179 J | 0.00336 J |
| | 11/30/2021 | <0.0200 | <0.0200 | <0.0200 | <0.0400 | <0.0400 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/02/2022 | <0.000408 | <0.000367 *1 | <0.000657 *1 | <0.000642 *1 | <0.000657 |
| MW-5 | 03/08/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 05/24/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 09/08/2016 | <0.000504 | <0.000621 | <0.000763 | <0.000256 | - |
| | 12/05/2016 | <0.000408 | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/13/2017 | 0.000800 J | <0.00100 | <0.000657 | <0.000642 | 0.000800 J |
| | 09/14/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/18/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 03/26/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/12/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 09/11/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/15/2019 | 0.00692 | <0.000367 | <0.000657 | <0.00063 | 0.00692 |
| | 06/11/2019 | <0.000387 | <0.000348 | <0.000623 | <0.000597 | <0.000348 |
| | 09/26/2019 | **0.0132** | <0.000367 | <0.000657 | <0.000630 | 0.0132 |
| | 12/07/2019 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 03/12/2020 | 0.00405 | <0.000367 | <0.000657 | <0.000630 | 0.00405 |
| | 06/11/2020 | 0.00131 JF | <0.000367 F | <0.000657 LF | <0.000630 | 0.00131 J |
| | 09/10/2020 | 0.00138 J | <0.000367 | <0.000657 | <0.000630 | 0.00138 J |
| | 12/15/2020 | 0.000650 J | <0.002000 | 0.00134 J | 0.00131 J | 0.003300 |
| | 03/18/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00200 |
| | 06/11/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 09/07/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 11/30/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/05/2022 | <0.000408 | <0.000367 *1 | <0.000657 *1 | <0.000642 *1 | <0.000657 |
| MW-6 | 03/08/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 05/24/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 09/08/2016 | <0.000504 | <0.000621 | <0.000763 | <0.000256 | - |
| | 12/05/2016 | <0.000408 | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/13/2017 | 0.00344 | <0.00100 | <0.000657 | <0.000642 | 0.00344 |
| | 09/14/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/18/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 03/26/2018 | <0.000408 | 0.000720 J | <0.000657 | <0.000630 | 0.000720 J |
| | 06/12/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 09/11/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/14/2019 | 0.00396 | <0.000367 | <0.000657 | <0.00063 | 0.00396 |

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Date Sampled | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) | Total BTEX (mg/L) |
|---|---|---|---|---|---|---|
| MW-7 | 03/08/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 05/24/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 09/08/2016 | <0.000504 | <0.000621 | <0.000763 | <0.000256 | - |
| | 12/05/2016 | <0.000408 | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/13/2017 | 0.00481 | <0.00100 | <0.000657 | <0.000642 | 0.00481 |
| | 09/14/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/18/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 03/26/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/12/2018 | 0.00150 | <0.000512 | 0.00120 | <0.000270 | 0.00270 |
| | 09/11/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/14/2019 | 0.000630 | <0.000367 | <0.000657 | <0.00063 | 0.000630 |
| | 06/10/2019 | **0.0407** | <0.000314 | <0.000562 | <0.000538 | 0.0407 |
| | 09/26/2019 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/07/2019 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| MW-8 | 03/08/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 05/24/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 09/08/2016 | <0.000504 | <0.000621 | <0.000763 | <0.000256 | - |
| | 12/05/2016 | <0.000408 | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/13/2017 | 0.00272 | <0.00100 | <0.000657 | <0.000642 | 0.00272 |
| | 09/14/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/18/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 03/26/2018 | <0.000408 | 0.000610 J | <0.000657 | <0.000630 | 0.000610 J |
| | 06/12/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 09/11/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/15/2019 | 0.00530 | <0.000367 | <0.000657 | <0.00063 | 0.00530 |
| | 06/11/2019 | <0.000408 | <0.000367 | <0.000657 | <0.00063 | <0.000367 |
| | 09/26/2019 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/07/2019 | **0.0586** | <0.000367 | 0.00422 | <0.000630 | 0.0628 |
| | 03/12/2020 | 0.00465 | <0.000367 | <0.000657 | <0.000630 | 0.00465 |
| | 06/11/2020 | 0.000870 JF | <0.000367 F | <0.000657 LF | <0.000630 | 0.000870 J |
| | 09/10/2020 | 0.00208 | <0.000367 | <0.000657 | <0.000630 | 0.00208 |
| | 12/15/2020 | 0.000590 J | <0.002000 | 0.00116 J | 0.00132 J | 0.003070 |
| | 03/29/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00200 |
| | 06/11/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 09/07/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 11/30/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/05/2022 | <0.000408 | 0.000429 J *1 | <0.000657 *1 | <0.000642 *1 | <0.000657 |
| MW-9 | 03/08/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 05/24/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 09/08/2016 | <0.000504 | <0.000621 | <0.000763 | <0.000256 | - |
| | 12/05/2016 | <0.000408 | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/13/2017 | 0.00113 J | <0.00100 | <0.000657 | <0.000642 | 0.00113 J |
| | 09/14/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/18/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 03/26/2018 | <0.000408 | 0.000680 J | <0.000657 | <0.000630 | 0.000680 J |
| | 06/12/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 09/11/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/14/2019 | 0.000930 | <0.000367 | <0.000657 | <0.00063 | 0.000930 |
| | 06/11/2019 | <0.000373 | <0.000335 | <0.0006 | <0.000575 | <0.000335 |
| | 09/26/2019 | **0.0105** | <0.000367 | <0.000657 | <0.000630 | 0.0105 |
| | 12/07/2019 | 0.000410 | <0.000367 | <0.000657 | <0.000630 | 0.000410 |
| | 03/12/2020 | 0.00583 | <0.000367 | <0.000657 | <0.000630 | 0.00583 |
| | 09/10/2020 | 0.00496 | <0.000367 | <0.000657 | <0.000630 | 0.00496 |
| | 12/15/2020 | 0.000750 J | <0.002000 | 0.00166 J | 0.00163 J | 0.004040 |
| | 03/18/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00200 |
| | 06/11/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 09/07/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 11/30/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/03/2022 | <0.000408 | <0.000367 | <0.000657 | 0.00110 J | 0.00110 J |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/05/2022 | <0.000408 | 0.000424 J *1 | <0.000657 *1 | <0.000642 *1 | <0.000657 |

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Date Sampled | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) | Total BTEX (mg/L) |
|---|---|---|---|---|---|---|
| MW-10 | 03/08/2016 | **2.62** | <0.0119 | 0.222 | <0.0122 | - |
| | 05/24/2016 | **2.38** | <0.00238 | 0.127 | 0.0325 | - |
| | 09/08/2016 | **3.16** | <0.0329 | 0.181 | <0.0136 | - |
| | 12/05/2016 | **3.35** | <0.0200 | 0.178 | 0.0420 | - |
| | 03/08/2017 | **2.69** | 0.0620 J | 0.303 | 0.0790 J | 3.13 |
| | 06/13/2017 | 0.00417 | <0.00100 | <0.000657 | <0.000642 | 0.00417 |
| | 09/14/2017 | **11.5 D** | <0.000367 | **0.901 D** | 0.0192 | 12.4 |
| | 12/18/2017 | **12.1 D** | 0.00857 | **0.953 D** | 0.0257 | 13.1 |
| | 03/26/2018 | **5.04** | 0.0270 J | 0.518 | <0.0315 | 5.59 |
| | 06/12/2018 | **3.94** | <0.00512 | 0.422 | <0.00270 | 4.36 |
| | 09/11/2018 | **6.30 D** | 0.000380 J | 0.693 D | 0.00625 | 7.00 |
| | 12/11/2018 | **3.65** | <0.0256 | 0.420 | <0.0135 | 4.07 |
| | 03/14/2019 | **4.29** | <0.000367 | 0.142 | <0.00063 | 4.43 |
| | 06/10/2019 | **32** | <0.0367 | **2.89** | **2.56** | 38 |
| | 09/26/2019 | **4.43** | <0.000367 | 0.307 | <0.000630 | 4.74 |
| | 12/07/2019 | **1.12** | <0.000367 | 0.0564 | <0.000630 | 1.18 |
| | 03/11/2020 | **3.03 D** | <0.000367 | 0.161 | <0.000630 | 3.19 |
| | 06/11/2020 | **2.33 DF** | 0.00104 JF | 0.0498 LF | 0.00203 | 2.38 |
| MW-11 | 03/08/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 05/24/2016 | <0.000223 | <0.000238 | <0.000238 | <0.000243 | - |
| | 09/08/2016 | <0.000504 | <0.000621 | <0.000763 | <0.000256 | - |
| | 12/05/2016 | <0.000408 | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | 0.000720 J | <0.000367 | <0.000657 | <0.000630 | 0.000720 J |
| | 06/13/2017 | 0.00424 | <0.00100 | <0.000657 | <0.000642 | 0.00424 |
| | 09/14/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/18/2017 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 03/26/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/12/2018 | 0.00270 | <0.000512 | <0.000616 | <0.000270 | 0.00270 |
| | 09/11/2018 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/14/2019 | **0.0101** | <0.000367 | 0.00173 | 0.00146 | 0.0133 |
| | 06/10/2019 | <0.000378 | <0.00034 | <0.000609 | <0.000584 | <0.00034 |
| | 09/26/2019 | **0.0429** | <0.000367 | 0.00902 | <0.000630 | 0.0519 |
| | 12/07/2019 | 0.000820 | 0.000440 | <0.000657 | <0.000630 | 0.00126 |
| | 03/12/2020 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/11/2020 | <0.000408 F | <0.000367 F | <0.000657 LF | <0.000630 | <0.000367 |
| | 09/08/2020 | 0.00575 | <0.000367 | 0.00384 | 0.00263 | 0.0122 |
| | 12/15/2020 | 0.00153 J | <0.002000 | 0.00251 | 0.00254 | 0.006580 |
| | 03/29/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00200 |
| | 06/11/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 09/07/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 11/30/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/05/2022 | <0.000408 | <0.000367 *1 | <0.000657 *1 | <0.000642 *1 | <0.000657 |
| MW-12 | 03/08/2016 | **1.88** | <0.0119 | <0.0119 | <0.0122 | - |
| | 05/24/2016 | **0.634** | <0.0119 | <0.0119 | <0.0122 | - |
| | 09/08/2016 | **0.162** | <0.0329 | <0.0404 | <0.0136 | - |
| | 12/05/2016 | **0.0577** | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | **0.117** | <0.0184 | <0.0329 | <0.0315 | 0.117 |
| | 06/13/2017 | 0.00768 | <0.00100 | <0.000657 | <0.000642 | 0.00768 |
| | 09/14/2017 | 0.00496 | <0.000367 | 0.00168 J | <0.000630 | 0.00664 |
| | 12/18/2017 | **0.0304** | <0.000367 | 0.00627 | 0.00146 J | 0.0381 |
| | 03/26/2018 | 0.000570 J | 0.00103 J | <0.000657 | <0.000630 | 0.00160 J |
| | 06/12/2018 | 0.00130 | <0.000512 | <0.000616 | 0.000700 J | 0.00200 |
| | 09/11/2018 | 0.00136 J | <0.000367 | <0.000657 | <0.000630 | 0.00136 J |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/14/2019 | 0.000950 | <0.000367 | <0.000657 | <0.00063 | 0.000950 |
| | 06/10/2019 | <0.00037 | <0.000333 | <0.000596 | <0.000571 | <0.000333 |
| | 09/26/2019 | 0.00564 | <0.000367 | <0.000657 | <0.000630 | 0.00564 |
| | 12/07/2019 | 0.000680 | <0.000367 | <0.000657 | 0.000640 | 0.00132 |
| | 03/12/2020 | 0.00719 | 0.000750 J | 0.00121 J | <0.000630 | 0.00915 |
| | 06/11/2020 | 0.00101 JF | <0.000367 F | <0.000657 LF | <0.000630 | 0.00101 J |
| | 09/10/2020 | 0.00874 | 0.000510 J | 0.00161 J | 0.00117 J | 0.0120 |
| | 12/15/2020 | 0.00213 | <0.002000 | 0.00236 | 0.00217 | 0.006660 |
| | 03/18/2021 | 0.000887 J | 0.000745 J | 0.00108 J | 0.00273 J | 0.00544 |
| | 06/11/2021 | 0.000750 J | 0.000555 J | <0.00200 | <0.00400 | 0.00131 J |
| | 09/07/2021 | 0.000614 J | <0.00200 | 0.000673 J | <0.00400 | 0.00129 J |
| | 11/30/2021 | 0.000479 J | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/03/2022 | <0.00816 | <0.00734 | <0.0131 | <0.0128 | <0.0131 |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/02/2022 | <0.00408 | <0.00367 *1 | <0.00657 *1 | <0.00642 *1 | <0.00657 |

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Date Sampled | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) | Total BTEX (mg/L) |
|---|---|---|---|---|---|---|
| MW-15 | 09/11/2018 | 0.00374 | 0.00324 | 0.0468 | 0.0637 | 0.117 |
| | 12/12/2018 | 0.00280 | <0.000512 | 0.0474 | 0.0510 | 0.101 |
| | 03/15/2019 | 0.00886 | <0.000367 | 0.0254 | 0.0257 | 0.0599 |
| | 06/10/2019 | **0.0122** | <0.000336 | 0.0954 | 0.0691 | 0.177 |
| | 09/26/2019 | <0.000408 | <0.000367 | 0.0251 | 0.0161 | 0.0412 |
| | 12/07/2019 | 0.00162 | <0.000367 | 0.0624 | 0.0369 | 0.101 |
| | 03/12/2020 | <0.000408 | <0.000367 | 0.0265 | <0.000630 | 0.0265 |
| | 06/11/2020 | 0.00205 F | <0.000367 F | 0.0235 LF | 0.0140 | 0.0396 |
| | 09/11/2020 | 0.000940 J | <0.000367 | 0.00715 | 0.00268 | 0.0108 |
| | 12/15/2020 | 0.000810 J | <0.002000 | 0.00257 | 0.00121 J | 0.004590 |
| | 03/19/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00200 |
| | 06/11/2021 | <0.00200 | <0.00200 | 0.00263 | <0.00400 | 0.00263 J |
| | 09/07/2021 | <0.00200 | <0.00200 | 0.00679 | 0.000719 J | 0.00751 |
| | 11/29/2021 | <0.00200 | <0.00200 | 0.00373 | <0.00400 | 0.00373 J |
| | 03/03/2022 | <0.000408 | <0.000367 | 0.00449 | <0.000642 | 0.00449 |
| | 06/03/2022 | <0.000408 | <0.000367 | 0.00123 J | 0.000946 J | 0.00218 J |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | 0.00122 J | 0.00122 J |
| | 12/05/2022 | <0.000408 | <0.000367 *1 | 0.00224 | <0.000642 *1 | 0.00224 J |
| MW-16 | 09/11/2018 | **0.0101** | 0.00839 | 0.0242 | 0.0314 | 0.0741 |
| | 12/12/2018 | 0.00230 | 0.00120 | 0.00890 | 0.0150 | 0.0274 |
| | 03/15/2019 | 0.00408 | 0.00222 | 0.00551 | 0.0114 | 0.0232 |
| | 06/10/2019 | <0.000377 | <0.000339 | <0.000607 | <0.000582 | <0.000339 |
| | 09/26/2019 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 12/07/2019 | 0.000470 | <0.000367 | 0.00598 | 0.00577 | 0.0122 |
| | 03/12/2020 | <0.000408 | <0.000367 | <0.000657 | <0.000630 | <0.000367 |
| | 06/11/2020 | <0.000408 F | <0.000367 F | <0.000657 LF | <0.000630 | <0.000367 |
| | 09/11/2020 | 0.00140 J | 0.000380 J | 0.00354 | 0.00299 | 0.00831 |
| | 12/15/2020 | 0.000590 J | <0.002000 | 0.00185 J | 0.00176 J | 0.004200 |
| | 03/19/2021 | <0.00200 | <0.00200 | 0.00682 | 0.00928 | 0.0161 |
| | 06/11/2021 | <0.00200 | <0.00200 | 0.00192 J | 0.00229 J | 0.00421 |
| | 09/07/2021 | <0.00200 | <0.00200 | 0.00151 J | <0.00400 | 0.00151 J |
| | 11/29/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/05/2022 | <0.000408 | <0.000367 *1 | <0.000657 *1 | <0.000642 *1 | <0.000657 |
| MW-18 | 03/08/2016 | **0.267** | <0.000238 | 0.000900 J | 0.000500 J | - |
| | 05/24/2016 | **0.0108** | <0.000238 | 0.000800 J | 0.000800 J | - |
| | 09/08/2016 | **0.0715** | <0.000621 | 0.00530 | 0.00610 | - |
| | 12/05/2016 | **0.264** | <0.00100 | <0.000657 | <0.000642 | - |
| | 03/08/2017 | **0.513** | <0.0184 | <0.0329 | <0.0315 | 0.513 |
| | 06/13/2017 | **5.45** | <0.0250 | <0.0164 | <0.0161 | 5.45 |
| | 09/14/2017 | **0.582 D** | <0.000367 | 0.00167 J | 0.00118 J | 0.585 |
| | 12/18/2017 | **6.82 D** | <0.000367 | 0.00507 | 0.0241 | 6.85 |
| | 03/26/2018 | **3.50** | 0.00760 J | <0.0131 | 0.0132 J | 3.52 |
| | 06/12/2018 | **3.09** | <0.0256 | <0.0308 | <0.0135 | 3.09 |
| | 09/11/2018 | **0.0801** | <0.000367 | <0.000657 | 0.00463 | 0.0847 |
| | 12/11/2018 | **0.0310** | <0.000512 | <0.000616 | <0.000270 | 0.0310 |
| | 03/14/2019 | <0.000408 | <0.000367 | <0.000657 | <0.00063 | <0.000367 |
| | 06/10/2019 | <0.00038 | <0.000342 | <0.000612 | <0.000586 | <0.000342 |
| | 09/25/2019 | **0.395** | 0.0145 | 0.00727 | <0.000630 | 0.417 |
| | 12/07/2019 | **0.122** | 0.00273 | 0.00199 | 0.0109 | 0.138 |
| | 03/11/2020 | **0.217** | 0.0239 | 0.0105 | 0.00489 | 0.256 |
| | 06/11/2020 | **0.241 F** | 0.0138 F | 0.00619 LF | 0.0366 | 0.298 |
| | 09/08/2020 | **0.135** | 0.0242 | 0.0119 | 0.0517 | 0.223 |
| | 12/14/2020 | **0.0479** | 0.0196 | 0.00646 | 0.00537 | 0.07933 |
| | 03/18/2021 | 0.00968 J | 0.0236 J | <0.0400 | <0.0800 | 0.0333 J |
| | 06/11/2021 | <0.00200 | 0.0175 | 0.00494 | <0.00400 | 0.0224 |
| | 09/07/2021 | 0.000698 J | 0.00218 | 0.00494 | <0.00400 | 0.00782 |
| | 11/30/2021 | 0.000702 J | 0.00527 | 0.00141 J | 0.0448 | 0.0522 |
| | 03/03/2022 | <0.000408 | 0.00477 | <0.000657 | <0.000642 | 0.00477 |
| | 06/02/2022 | 0.00223 | <0.000367 | <0.000657 | 0.00104 J | 0.00327 J |
| | 09/14/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/05/2022 | <0.00408 | <0.00367 *1 | <0.00657 *1 | <0.00642 *1 | <0.00657 |

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Date Sampled | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) | Total BTEX (mg/L) |
|---|---|---|---|---|---|---|
| MW-19 | 09/11/2018 | **2.41 D** | <0.000367 | <0.000657 | <0.000630 | 2.41 |
| | 12/11/2018 | **6.07** | <0.0102 | <0.0123 | <0.00540 | 6.07 |
| | 03/14/2019 | **2.11** | <0.000367 | <0.000657 | <0.00063 | 2.11 |
| | 06/10/2019 | **0.302** | <0.000367 | <0.000657 | <0.00063 | 0.302 |
| | 09/25/2019 | **3.99** | <0.000367 | 0.00585 | <0.000630 | 4.00 |
| | 12/07/2019 | 0.00180 | 0.000720 | 0.00206 | 0.00447 | 0.00905 |
| | 03/11/2020 | **3.96 D** | 0.00557 | 0.00777 | 0.00131 J | 3.97 |
| | 06/11/2020 | <0.000408 F | <0.000367 F | <0.000657 LF | <0.000630 | <0.000367 |
| | 09/08/2020 | **1.21** | <0.00184 | <0.00329 | <0.00315 | 1.21 |
| | 12/14/2020 | **0.336 X** | 0.00208 | 0.00131 J | 0.00116 J | 0.3406 |
| | 03/18/2021 | **0.0235** | <0.00200 | <0.00200 | <0.00400 | 0.0235 |
| | 06/11/2021 | **0.0958** | <0.00200 | <0.00200 | 0.00114 J | 0.0969 |
| | 09/07/2021 | **0.110** | 0.00112 J | <0.00200 | <0.00400 | 0.111 |
| | 11/30/2021 | 0.00575 | 0.00039 J | <0.00200 | <0.00400 | 0.00614 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/02/2022 | **0.0268** | <0.000367 | 0.00322 | 0.0223 | 0.0523 |
| | 09/14/2022 | 0.000773 J | <0.000367 | <0.000657 | <0.000642 | 0.000773 J |
| | 12/02/2022 | 0.00110 J | 0.000628 J *1 | <0.000657 *1 | <0.000642 *1 | 0.00173 J |
| MW-20 | 09/11/2018 | 0.00373 | <0.000367 | <0.000657 | <0.000630 | 0.00373 |
| | 12/11/2018 | <0.000480 | <0.000512 | <0.000616 | <0.000270 | <0.000270 |
| | 03/14/2019 | 0.00741 | <0.000367 | <0.000657 | <0.00063 | 0.00741 |
| | 06/10/2019 | **0.0373** | <0.000367 | <0.000657 | <0.00063 | 0.0373 |
| | 09/25/2019 | **0.0606** | <0.000367 | <0.000657 | <0.000630 | 0.0606 |
| | 12/07/2019 | **2.24** | 0.00218 | 0.00376 | 0.00340 | 2.25 |
| | 03/11/2020 | **0.0227** | <0.000367 | <0.000657 | <0.000630 | 0.0227 |
| | 06/11/2020 | <0.000408 F | <0.000367 F | <0.000657 LF | <0.000630 | <0.000367 |
| | 09/08/2020 | <0.000408 XF | <0.000367 XF | <0.000657 XF | <0.000630 | <0.000367 |
| | 12/14/2020 | 0.00320 | <0.002000 | <0.002000 | <0.002000 | 0.003200 |
| | 03/18/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00200 |
| | 06/11/2021 | 0.000427 J | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 09/07/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 11/30/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 |
| | 03/03/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 06/02/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 09/13/2022 | <0.000408 | <0.000367 | <0.000657 | <0.000642 | <0.000657 |
| | 12/02/2022 | <0.000408 | <0.000367 *1 | <0.000657 *1 | <0.000642 *1 | <0.000657 |

Notes:
Lab Flags noted next to values. See lab report for description.

**Analyte concentration exceeds the standard for:**
**NMWQCC - Groundwater**

Table 3 - Groundwater Analytical Data - Historical - PAH Supplement
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

| Sample ID | Date Sampled | Acenaphthene (mg/L) | Acenaphthylene (mg/L) | Anthracene (mg/L) | Benzo(a)anthracene (mg/L) | Benzo(a)pyrene (mg/L) | Benzo(b)fluoranthene (mg/L) | Benzo(g,h,i)perylene (mg/L) | Benzo(k)fluoranthene (mg/L) | Chrysene (mg/L) | Dibenz(a,h)anthracene (mg/L) | Dibenzofuran (mg/L) | Fluoranthene (mg/L) | Fluorene (mg/L) | Indeno (1,2,3-c,d) pyren (mg/L) | Naphthalene (mg/L) | Phenanthrene (mg/L) | Pyrene (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NMWQCC - Groundwater** | | - | - | - | - | 0.007 | - | - | - | - | - | - | - | - | - | 0.03 | - | - |
| MW-4 | 03/26/2018 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | <0.000109 | 0.000136 J | <0.000109 | <0.000109 |
| | 03/15/2019 | <0.0000041 | <0.0000073 | <0.0000076 | <0.0000063 | <0.0000095 | <0.0000091 | <0.0000080 | <0.0000078 | <0.0000088 | <0.0000049 | <0.0000053 | <0.0000090 | <0.0000055 | <0.0000049 | 0.000122 | <0.0000055 | <0.0000092 |
| | 03/11/2020 | <0.000103 | <0.0000871 | <0.0000896 | <0.000139 | <0.0000590 | <0.0000735 | <0.000117 | <0.000120 | <0.000161 | <0.0000786 | - | <0.000163 | <0.000104 | <0.0000945 | <0.000101 | <0.0000880 | <0.000135 |
| MW-10 | 12/05/2016 | 0.000155 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | 0.000214 | <0.0000250 | 0.000465 | <0.0000250 | <0.0000250 | 0.000296 | <0.0000250 |
| | 03/26/2018 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | 0.000985 | <0.000110 | 0.00167 | <0.000110 | 0.000329 J | 0.00129 | <0.000110 |
| | 03/14/2019 | <0.0000040 | <0.0000072 | <0.0000075 | <0.0000063 | <0.0000095 | <0.0000090 | <0.0000079 | <0.0000077 | <0.0000087 | <0.0000049 | 0.000142 | <0.0000089 | 0.000255 | <0.0000049 | 0.0000739 | 0.0000810 | <0.0000091 |
| | 03/11/2020 | 0.000555 | <0.000104 | <0.000107 | <0.000166 | <0.0000706 | <0.0000879 | <0.000140 | <0.000144 | <0.000193 | <0.000094 | - | <0.000194 | 0.00216 | <0.000113 | 0.000301 J | 0.00210 | <0.000161 |
| MW-12 | 12/05/2016 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | <0.0000250 | 0.000110 | <0.0000250 | 0.000505 | <0.0000250 | <0.0000250 | 0.000122 | 0.0000626 |
| | 03/26/2018 | <0.000108 | <0.000108 | <0.000108 | <0.000108 | <0.000108 | <0.000108 | <0.000108 | <0.000108 | <0.000108 | <0.000108 | 0.000241 | <0.000108 | 0.000473 | <0.000108 | 0.000247 J | <0.000108 | <0.000108 |
| | 03/14/2019 | <0.0000041 | <0.0000073 | <0.0000076 | <0.0000063 | <0.0000095 | <0.0000091 | <0.0000080 | <0.0000078 | <0.0000088 | <0.0000049 | 0.000157 | <0.0000090 | 0.000322 | <0.0000049 | <0.0000045 | <0.0000055 | <0.0000092 |
| | 03/12/2020 | <0.000111 | <0.0000931 | <0.0000958 | <0.000149 | <0.0000631 | <0.0000786 | <0.000125 | <0.000128 | <0.000173 | <0.0000840 | - | <0.000174 | 0.000400 | <0.000101 | <0.000108 | <0.0000940 | <0.000144 |
| MW-18 | 03/08/2016 | <0.0000329 | <0.0000575 | <0.0000318 | <0.0000714 | <0.0000414 | <0.0000703 | <0.0000514 | <0.0000555 | <0.0000803 | <0.0000556 | <0.0000601 | <0.0000632 | <0.0000780 | <0.0000532 | <0.0000649 | <0.0000511 | <0.0000411 |
| | 03/26/2018 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | <0.000110 | 0.000829 | <0.000110 | <0.000110 | <0.000110 | 0.000447 | 0.000388 | <0.000110 |
| | 03/14/2019 | <0.0000041 | <0.0000073 | <0.0000076 | <0.0000063 | <0.0000095 | <0.0000091 | <0.0000080 | <0.0000078 | <0.0000088 | <0.0000049 | 0.0000305 | <0.0000090 | 0.0000255 | <0.0000049 | 0.0000325 | <0.0000055 | <0.0000092 |
| | 03/11/2020 | <0.000109 | <0.0000916 | <0.0000943 | <0.000146 | <0.0000621 | <0.0000774 | <0.000123 | <0.000126 | <0.000170 | <0.0000827 | - | <0.000171 | 0.000167 J | <0.0000994 | <0.000106 | 0.000183 J | <0.000142 |
| MW-19 | 03/14/2019 | <0.0000042 | <0.0000075 | <0.0000077 | <0.0000065 | <0.0000097 | <0.0000093 | <0.0000081 | <0.0000079 | <0.0000090 | <0.0000050 | <0.0000054 | <0.0000091 | <0.0000056 | <0.0000050 | <0.0000046 | <0.0000056 | <0.0000094 |
| | 03/11/2020 | 0.000168 J | <0.0000855 | <0.0000880 | <0.000137 | <0.0000580 | <0.0000722 | <0.000115 | <0.000118 | <0.000159 | <0.0000772 | - | <0.000160 | 0.000900 | <0.0000928 | 0.000213 J | 0.00112 | <0.000132 |
| MW-20 | 03/14/2019 | <0.0000041 | <0.0000074 | <0.0000077 | <0.0000064 | <0.0000096 | <0.0000092 | <0.0000080 | <0.0000079 | <0.0000089 | <0.000005 | <0.0000054 | <0.0000090 | <0.0000055 | <0.000005 | 0.0000398 | <0.0000056 | <0.0000093 |
| | 03/11/2020 | <0.000107 | <0.0000899 | <0.0000925 | <0.000144 | <0.0000609 | <0.0000759 | <0.000121 | <0.000124 | <0.000167 | <0.0000811 | - | <0.000168 | <0.000108 | <0.0000975 | <0.000104 | <0.0000908 | <0.000139 |

Notes:
Lab Flags noted next to values. See lab report for description.

**Analyte concentration exceeds the standard for:**
**NMWQCC - Groundwater**

# APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2039-1
Laboratory Sample Delivery Group: SRS 2002-10213
Client Project/Site: Lovington Deep
Revision: 1

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKramer

*Authorized for release by:*
*3/21/2022 9:01:21 PM*

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com



*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Talon/LPE
Project/Site: Lovington Deep

Laboratory Job ID: 890-2039-1
SDG: SRS 2002-10213

# Table of Contents

# Definitions/Glossary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| *- | LCS and/or LCSD is outside acceptance limits, low biased. |
| *1 | LCS/LCSD RPD exceeds control limits. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

# Case Narrative

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Job ID: 890-2039-1

### Laboratory: Eurofins Carlsbad

**Narrative**

**Job Narrative**
**890-2039-1**

REVISION

The report being provided is a revision of the original report sent on 3/10/2022. The report (revision 1) is being revised due to Per client email, reviewing flagging on report.

Report revision history

**Receipt**
The samples were received on 3/3/2022 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

**GC VOA**
Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-21209 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) and LCSD were within acceptance limits and therefore, the data has been reported.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-21209 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-21149/5-A) and (MB 880-21209/39). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Client Sample ID: MW-20
**Date Collected: 03/03/22 09:00**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-1
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 05:43 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 05:43 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 05:43 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 05:43 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 05:43 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 05:43 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 05:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | | *03/10/22 05:43* | *1* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *70 - 130* | | *03/10/22 05:43* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-19
**Date Collected: 03/03/22 09:26**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-2
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 06:10 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 06:10 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 06:10 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 06:10 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 06:10 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 06:10 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 06:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *117* | | *70 - 130* | | *03/10/22 06:10* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* | | *03/10/22 06:10* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-12
**Date Collected: 03/03/22 10:00**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-3
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 06:37 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 06:37 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 06:37 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 06:37 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Client Sample ID: MW-12
**Date Collected: 03/03/22 10:00**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-3
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 06:37 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 06:37 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 06:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *115* | | *70 - 130* | | *03/10/22 06:37* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 130* | | *03/10/22 06:37* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-18
**Date Collected: 03/03/22 10:15**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-4
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 07:04 | 1 |
| **Toluene** | **0.00477** | | 0.00200 | 0.000367 | mg/L | | | 03/10/22 07:04 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 07:04 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 07:04 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 07:04 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 07:04 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 07:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *127* | | *70 - 130* | | *03/10/22 07:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | | *03/10/22 07:04* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00477** | | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-9
**Date Collected: 03/03/22 10:30**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-5
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 07:30 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 07:30 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 07:30 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 07:30 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 07:30 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 07:30 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 07:30 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Client Sample ID: MW-9
**Date Collected: 03/03/22 10:30**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-5
**Matrix: Water**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | | *03/10/22 07:30* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* | | *03/10/22 07:30* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-5
**Date Collected: 03/03/22 10:30**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-6
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 11:35 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 11:35 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 11:35 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 11:35 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 11:35 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 11:35 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 11:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *117* | | *70 - 130* | | *03/10/22 11:35* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | | *03/10/22 11:35* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-4
**Date Collected: 03/03/22 10:45**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-7
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 12:02 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 12:02 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 12:02 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 12:02 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 12:02 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 12:02 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 12:02 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *121* | | *70 - 130* | | *03/10/22 12:02* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 130* | | *03/10/22 12:02* | *1* |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Client Sample ID: MW-4
**Date Collected: 03/03/22 10:45**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-7
**Matrix: Water**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-11
**Date Collected: 03/03/22 10:58**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-8
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 12:28 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 12:28 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 12:28 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 12:28 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 12:28 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 12:28 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 12:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *123* | | *70 - 130* | | *03/10/22 12:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* | | *03/10/22 12:28* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-1
**Date Collected: 03/03/22 11:15**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-9
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 12:54 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 12:54 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 12:54 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 12:54 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 12:54 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 12:54 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 12:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *115* | | *70 - 130* | | *03/10/22 12:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 130* | | *03/10/22 12:54* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Client Sample ID: MW-8
**Date Collected: 03/03/22 11:25**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-10
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 13:20 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 13:20 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 13:20 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 13:20 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 13:20 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 13:20 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 13:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *127* | | *70 - 130* | | *03/10/22 13:20* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | | *03/10/22 13:20* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-15
**Date Collected: 03/03/22 11:45**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-11
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 13:47 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 13:47 | 1 |
| **Ethylbenzene** | **0.00449** | | 0.00200 | 0.000657 | mg/L | | | 03/10/22 13:47 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 13:47 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 13:47 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 13:47 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 13:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | | *03/10/22 13:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* | | *03/10/22 13:47* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00449** | | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-16
**Date Collected: 03/03/22 12:15**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-12
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 14:13 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 14:13 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 14:13 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 14:13 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Client Sample ID: MW-16
**Date Collected: 03/03/22 12:15**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-12
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 14:13 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 14:13 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 14:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *114* | | *70 - 130* | | *03/10/22 14:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *70 - 130* | | *03/10/22 14:13* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

## Client Sample ID: MW-3
**Date Collected: 03/03/22 13:05**
**Date Received: 03/03/22 15:10**
**Sample Depth: N/A**

## Lab Sample ID: 890-2039-13
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 14:40 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 14:40 | 1 |
| **Ethylbenzene** | **0.0265** | | 0.00200 | 0.000657 | mg/L | | | 03/10/22 14:40 | 1 |
| **m-Xylene & p-Xylene** | **0.00488** | | 0.00400 | 0.000629 | mg/L | | | 03/10/22 14:40 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 14:40 | 1 |
| **Xylenes, Total** | **0.00488** | | 0.00400 | 0.000642 | mg/L | | | 03/10/22 14:40 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 14:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | | *03/10/22 14:40* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* | | *03/10/22 14:40* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0314** | | 0.00400 | 0.000657 | mg/L | | | 03/10/22 11:16 | 1 |

# Surrogate Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | DFBZ1 (70-130) | BFB1 (70-130) |
| 890-2039-1 | MW-20 | 99 | 89 |
| 890-2039-1 MS | MW-20 | 122 | 77 |
| 890-2039-1 MSD | MW-20 | 98 | 80 |
| 890-2039-2 | MW-19 | 117 | 97 |
| 890-2039-3 | MW-12 | 115 | 91 |
| 890-2039-4 | MW-18 | 127 | 105 |
| 890-2039-5 | MW-9 | 110 | 96 |
| 890-2039-6 | MW-5 | 117 | 105 |
| 890-2039-7 | MW-4 | 121 | 98 |
| 890-2039-8 | MW-11 | 123 | 101 |
| 890-2039-9 | MW-1 | 115 | 91 |
| 890-2039-10 | MW-8 | 127 | 104 |
| 890-2039-11 | MW-15 | 113 | 102 |
| 890-2039-12 | MW-16 | 114 | 86 |
| 890-2039-13 | MW-3 | 110 | 96 |
| LCS 880-21209/34 | Lab Control Sample | 114 | 72 |
| LCSD 880-21209/35 | Lab Control Sample Dup | 125 | 87 |
| MB 880-21149/5-A | Method Blank | 100 | 46 S1- |
| MB 880-21209/39 | Method Blank | 108 | 51 S1- |

**Surrogate Legend**

DFBZ = 1,4-Difluorobenzene (Surr)
BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Method: 8021B - Volatile Organic Compounds (GC)

**Lab Sample ID: MB 880-21149/5-A**
**Matrix: Water**
**Analysis Batch: 21209**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 21149**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | 03/09/22 08:30 | 03/09/22 15:28 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | 03/09/22 08:30 | 03/09/22 15:28 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | 03/09/22 08:30 | 03/09/22 15:28 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | 03/09/22 08:30 | 03/09/22 15:28 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | 03/09/22 08:30 | 03/09/22 15:28 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | 03/09/22 08:30 | 03/09/22 15:28 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | 03/09/22 08:30 | 03/09/22 15:28 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *03/09/22 08:30* | *03/09/22 15:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *46* | *S1-* | *70 - 130* | *03/09/22 08:30* | *03/09/22 15:28* | *1* |

**Lab Sample ID: MB 880-21209/39**
**Matrix: Water**
**Analysis Batch: 21209**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 03/10/22 05:16 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 03/10/22 05:16 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 03/10/22 05:16 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 03/10/22 05:16 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 03/10/22 05:16 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 03/10/22 05:16 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 03/10/22 05:16 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | | *03/10/22 05:16* | *1* |
| *4-Bromofluorobenzene (Surr)* | *51* | *S1-* | *70 - 130* | | *03/10/22 05:16* | *1* |

**Lab Sample ID: LCS 880-21209/34**
**Matrix: Water**
**Analysis Batch: 21209**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.05586 | *- | mg/L | | 56 | 70 - 130 |
| Toluene | 0.100 | 0.05103 | *- | mg/L | | 51 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.05596 | *- | mg/L | | 56 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1148 | *- | mg/L | | 57 | 70 - 130 |
| o-Xylene | 0.100 | 0.05962 | *- | mg/L | | 60 | 70 - 130 |
| Methyl tert-butyl ether | 0.500 | 0.3784 | | mg/L | | 76 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *114* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *72* | | *70 - 130* |

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: LCSD 880-21209/35**
**Matrix: Water**
**Analysis Batch: 21209**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09619 | *1 | mg/L | | 96 | 70 - 130 | 53 | 20 |
| Toluene | | | 0.100 | 0.08756 | *1 | mg/L | | 88 | 70 - 130 | 53 | 20 |
| Ethylbenzene | | | 0.100 | 0.09130 | *1 | mg/L | | 91 | 70 - 130 | 48 | 20 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1871 | *1 | mg/L | | 94 | 70 - 130 | 48 | 20 |
| o-Xylene | | | 0.100 | 0.09391 | *1 | mg/L | | 94 | 70 - 130 | 45 | 20 |
| Methyl tert-butyl ether | | | 0.500 | 0.5094 | *1 | mg/L | | 102 | 70 - 130 | 29 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *125* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *70 - 130* |

**Lab Sample ID: 890-2039-1 MS**
**Matrix: Water**
**Analysis Batch: 21209**

**Client Sample ID: MW-20**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.1066 | | mg/L | | 107 | 70 - 130 |
| Toluene | <0.000367 | U | 0.100 | 0.08202 | | mg/L | | 82 | 70 - 130 |
| Ethylbenzene | <0.000657 | U | 0.100 | 0.08373 | | mg/L | | 84 | 70 - 130 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.200 | 0.1700 | | mg/L | | 85 | 70 - 130 |
| o-Xylene | <0.000642 | U | 0.100 | 0.08653 | | mg/L | | 87 | 70 - 130 |
| Methyl tert-butyl ether | <0.00258 | U | 0.500 | 0.4769 | | mg/L | | 95 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *122* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *77* | | *70 - 130* |

**Lab Sample ID: 890-2039-1 MSD**
**Matrix: Water**
**Analysis Batch: 21209**

**Client Sample ID: MW-20**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.08971 | | mg/L | | 90 | 70 - 130 | 17 | 25 |
| Toluene | <0.000367 | U | 0.100 | 0.08082 | | mg/L | | 81 | 70 - 130 | 1 | 25 |
| Ethylbenzene | <0.000657 | U | 0.100 | 0.08336 | | mg/L | | 83 | 70 - 130 | 0 | 25 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.200 | 0.1706 | | mg/L | | 85 | 70 - 130 | 0 | 25 |
| o-Xylene | <0.000642 | U | 0.100 | 0.08689 | | mg/L | | 87 | 70 - 130 | 0 | 25 |
| Methyl tert-butyl ether | <0.00258 | U | 0.500 | 0.4945 | | mg/L | | 99 | 70 - 130 | 4 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *80* | | *70 - 130* |

# QC Association Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## GC VOA

### Prep Batch: 21149

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-21149/5-A | Method Blank | Total/NA | Water | 5035 | |

### Analysis Batch: 21209

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-2039-1 | MW-20 | Total/NA | Water | 8021B | |
| 890-2039-2 | MW-19 | Total/NA | Water | 8021B | |
| 890-2039-3 | MW-12 | Total/NA | Water | 8021B | |
| 890-2039-4 | MW-18 | Total/NA | Water | 8021B | |
| 890-2039-5 | MW-9 | Total/NA | Water | 8021B | |
| 890-2039-6 | MW-5 | Total/NA | Water | 8021B | |
| 890-2039-7 | MW-4 | Total/NA | Water | 8021B | |
| 890-2039-8 | MW-11 | Total/NA | Water | 8021B | |
| 890-2039-9 | MW-1 | Total/NA | Water | 8021B | |
| 890-2039-10 | MW-8 | Total/NA | Water | 8021B | |
| 890-2039-11 | MW-15 | Total/NA | Water | 8021B | |
| 890-2039-12 | MW-16 | Total/NA | Water | 8021B | |
| 890-2039-13 | MW-3 | Total/NA | Water | 8021B | |
| MB 880-21149/5-A | Method Blank | Total/NA | Water | 8021B | 21149 |
| MB 880-21209/39 | Method Blank | Total/NA | Water | 8021B | |
| LCS 880-21209/34 | Lab Control Sample | Total/NA | Water | 8021B | |
| LCSD 880-21209/35 | Lab Control Sample Dup | Total/NA | Water | 8021B | |
| 890-2039-1 MS | MW-20 | Total/NA | Water | 8021B | |
| 890-2039-1 MSD | MW-20 | Total/NA | Water | 8021B | |

### Analysis Batch: 21294

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-2039-1 | MW-20 | Total/NA | Water | Total BTEX | |
| 890-2039-2 | MW-19 | Total/NA | Water | Total BTEX | |
| 890-2039-3 | MW-12 | Total/NA | Water | Total BTEX | |
| 890-2039-4 | MW-18 | Total/NA | Water | Total BTEX | |
| 890-2039-5 | MW-9 | Total/NA | Water | Total BTEX | |
| 890-2039-6 | MW-5 | Total/NA | Water | Total BTEX | |
| 890-2039-7 | MW-4 | Total/NA | Water | Total BTEX | |
| 890-2039-8 | MW-11 | Total/NA | Water | Total BTEX | |
| 890-2039-9 | MW-1 | Total/NA | Water | Total BTEX | |
| 890-2039-10 | MW-8 | Total/NA | Water | Total BTEX | |
| 890-2039-11 | MW-15 | Total/NA | Water | Total BTEX | |
| 890-2039-12 | MW-16 | Total/NA | Water | Total BTEX | |
| 890-2039-13 | MW-3 | Total/NA | Water | Total BTEX | |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Client Sample ID: MW-20
**Date Collected: 03/03/22 09:00**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-1
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 05:43 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-19
**Date Collected: 03/03/22 09:26**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-2
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 06:10 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-12
**Date Collected: 03/03/22 10:00**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-3
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 06:37 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-18
**Date Collected: 03/03/22 10:15**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-4
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 07:04 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-9
**Date Collected: 03/03/22 10:30**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-5
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 07:30 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-5
**Date Collected: 03/03/22 10:30**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-6
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 11:35 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Client Sample ID: MW-4
**Date Collected: 03/03/22 10:45**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-7
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 12:02 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-11
**Date Collected: 03/03/22 10:58**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-8
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 12:28 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-1
**Date Collected: 03/03/22 11:15**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-9
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 12:54 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-8
**Date Collected: 03/03/22 11:25**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-10
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 13:20 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-15
**Date Collected: 03/03/22 11:45**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-11
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 13:47 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

## Client Sample ID: MW-16
**Date Collected: 03/03/22 12:15**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-12
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 14:13 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Client Sample ID: MW-3
**Date Collected: 03/03/22 13:05**
**Date Received: 03/03/22 15:10**

## Lab Sample ID: 890-2039-13
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 21209 | 03/10/22 14:40 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 21294 | 03/10/22 11:16 | AJ | XEN MID |

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-21-22 | 06-30-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Total BTEX | | Water | Total BTEX |

# Method Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8021B | Volatile Organic Compounds (GC) | SW846 | XEN MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | XEN MID |
| 5030B | Purge and Trap | SW846 | XEN MID |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2039-1
SDG: SRS 2002-10213

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---|---|---|---|---|---|
| 890-2039-1 | MW-20 | Water | 03/03/22 09:00 | 03/03/22 15:10 | N/A |
| 890-2039-2 | MW-19 | Water | 03/03/22 09:26 | 03/03/22 15:10 | N/A |
| 890-2039-3 | MW-12 | Water | 03/03/22 10:00 | 03/03/22 15:10 | N/A |
| 890-2039-4 | MW-18 | Water | 03/03/22 10:15 | 03/03/22 15:10 | N/A |
| 890-2039-5 | MW-9 | Water | 03/03/22 10:30 | 03/03/22 15:10 | N/A |
| 890-2039-6 | MW-5 | Water | 03/03/22 10:30 | 03/03/22 15:10 | N/A |
| 890-2039-7 | MW-4 | Water | 03/03/22 10:45 | 03/03/22 15:10 | N/A |
| 890-2039-8 | MW-11 | Water | 03/03/22 10:58 | 03/03/22 15:10 | N/A |
| 890-2039-9 | MW-1 | Water | 03/03/22 11:15 | 03/03/22 15:10 | N/A |
| 890-2039-10 | MW-8 | Water | 03/03/22 11:25 | 03/03/22 15:10 | N/A |
| 890-2039-11 | MW-15 | Water | 03/03/22 11:45 | 03/03/22 15:10 | N/A |
| 890-2039-12 | MW-16 | Water | 03/03/22 12:15 | 03/03/22 15:10 | N/A |
| 890-2039-13 | MW-3 | Water | 03/03/22 13:05 | 03/03/22 15:10 | N/A |

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Work Order No:** _____

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| | | | |
|---|---|---|---|
| Project Manager: | D. Adkins | Bill to: (if different) | Plains All American |
| Company Name: | Talon LPE | Company Name: | Pipeline |
| Address: | 408 Texas | Address: | Attn: Camille Bryant |
| City, State ZIP: | Artesia NM 88210 | City, State ZIP: | SRS# 2002-10213 |
| Phone: | 575-441-4835 Email: | | dadkins@talonlpe.com |

**Work Order Comments**
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Lovington Deep | Turn Around | |
| Project Number: | | ☑ Routine ☐ Rush | |
| Project Location: | Lea County | Due Date: | |
| Sampler's Name: | R. Bell, M. Gomez | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | SRS# 2002-10213 | | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No |
| Samples Received Intact: | Yes No | Thermometer ID: | TWM00-3 |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes No N/A | Temperature Reading: | 1.6 |
| Total Containers: | | Corrected Temperature: | 1.4 |

**ANALYSIS REQUEST**

Pres. Code

Parameters: BTEX 8021

890-2039 Chain of Custody

**Preservative Codes**
None: NO DI Water: $H_2O$
Cool: Cool MeOH: Me
HCL: HC $HNO_3$: HN
$H_2SO_4$: $H_2$ NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
~~$Na_2S_2O_3$: $NaSO_3$~~
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | BTEX 8021 | Sample Comments |
|---|---|---|---|---|---|---|---|---|
| MW-20 | GW | 3/3/22 | 9:00 | N/A | | 3 | X | Email Analytical to: CJBryant@paalp.com naochoa@paalp.com |
| MW-19 | | | 9:26 | | | | | |
| MW-12 | | | 10:00 | | | | | |
| MW-18 | | | 10:15 | | | | | |
| MW-9 | | | 10:30 | | | | | |
| MW-5 | | | 10:30 | | | | | |
| MW-4 | | | 10:45 | | | | | |
| MW-11 | | | 10:58 | | | | | |
| MW-1 | | | 11:15 | | | | | |
| MW-8 | | | 11:25 | | | | | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 Matthew Gomez | | 3.3.22 1510 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date: 08/25/2020 Rev 2020.2

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Work Order No:** _____

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| | | | |
|---|---|---|---|
| Project Manager: | D. Adkins | Bill to: (if different) | Plains All American |
| Company Name: | Talon LPE | Company Name: | Pipeline |
| Address: | 408 Texas | Address: | Attn: Camille Bryant |
| City, State ZIP: | Artesia, NM 88210 | City, State ZIP: | SRS# 2002-10312 |
| Phone: | 575-441-4835 | Email: | dadkins@talonlpe.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Lovington Deep | Turn Around | Pres. Code |
| Project Number: | | ☑ Routine ☐ Rush | |
| Project Location: | Lea County | Due Date: | |
| Sampler's Name: | R. Bell, M. Gomez | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | SRS# 2002-10312 | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | Parameters |
| Samples Received Intact: | Yes No | Thermometer ID: | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | -0.1 | |
| ~~Sample Custody Seals:~~ | Yes No N/A | Temperature Reading: | | |
| Total Containers: | | Corrected Temperature: | | |

**ANALYSIS REQUEST**

**Preservative Codes**

None: NO DI Water: $H_2O$
Cool: Cool MeOH: Me
HCL: HC $HNO_3$: HN
$H_2SO_4$: $H_2$ NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | BTEX 8021 | Sample Comments |
|---|---|---|---|---|---|---|---|---|
| MW-15 | GW | 3/3/22 | 11:45 | N/A | | 3 | X | Email Analytical to: GBryant@paalp.com, MAOchoa@paalp.com |
| MW-16 | | | 12:15 | | | | X | |
| MW-3 | | | 1:05 | | | | X | |

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 Matthew Gomez | Ace Cup | 3.3.22 1510 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date: 08/25/2020 Rev. 2020.2

**Eurofins Carlsbad**
1089 N Canal St
Carlsbad NM 88220
Phone: 575-988-3199 Fax. 575-988-3199

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information (Sub Contract Lab) | Sampler | Lab PM: Kramer, Jessica | Carrier Tracking No(s) | COC No: 890-652 1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone | E-Mail: jessica.kramer@eurofinset.com | State of Origin: New Mexico | Page: Page 1 of 2 |
| Company: Eurofins Environment Testing South Centr | | Accreditations Required (See note): NELAP - Texas | | Job #: 890-2039-1 |
| Address: 1211 W Florida Ave, , | Due Date Requested: 3/9/2022 | | | |
| City: Midland | TAT Requested (days): | | | |
| State Zip: TX, 79701 | | | | |
| Phone: 432-704-5440(Tel) | PO #: | | | |
| Email | WO #: | | | |
| Project Name: Lovington Deep | Project #: 89000047 | | | |
| Site | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes**

| | |
|---|---|
| A - HCL | M Hexane |
| B NaOH | N - None |
| C Zn Acetate | O AsNaO2 |
| D - Nitric Acid | P Na2O4S |
| E NaHSO4 | Q Na2SO3 |
| F - MeOH | R Na2S2O3 |
| G Amchlor | S - H2SO4 |
| H Ascorbic Acid | T TSP Dodecahydrate |
| I Ice | U Acetone |
| J DI Water | V - MCAA |
| K - EDTA | W pH 4-5 |
| L EDA | Z - other (specify) |

Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8021B/5030B BTEX and MTBE | Total_BTEX_GCV | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | |
| MW-20 (890-2039-1) | 3/3/22 | 09 00 Mountain | | Water | | | X | X | 3 | |
| MW-19 (890-2039-2) | 3/3/22 | 09 26 Mountain | | Water | | | X | X | 3 | |
| MW-12 (890-2039-3) | 3/3/22 | 10 00 Mountain | | Water | | | X | X | 3 | |
| MW-18 (890-2039-4) | 3/3/22 | 10 15 Mountain | | Water | | | X | X | 3 | |
| MW-9 (890-2039-5) | 3/3/22 | 10 30 Mountain | | Water | | | X | X | 3 | |
| MW-5 (890-2039-6) | 3/3/22 | 10 30 Mountain | | Water | | | X | X | 3 | |
| MW-4 (890-2039-7) | 3/3/22 | 10 45 Mountain | | Water | | | X | X | 3 | |
| MW-11 (890-2039-8) | 3/3/22 | 10 58 Mountain | | Water | | | X | X | 3 | |
| MW-1 (890-2039-9) | 3/3/22 | 11 15 Mountain | | Water | | | X | X | 3 | |

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

| ***Possible Hazard Identification*** | ***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*** |
|---|---|
| *Unconfirmed* | ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
| Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank 2 | Special Instructions/QC Requirements |

| Empty Kit Relinquished by | Date | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|
| Clee Cup | 3422 | | | 3.422 13:00 | Xenco |
| Relinquished by | Date/Time: | Company | Received by | Date/Time | Company |
| Relinquished by | Date/Time: | Company | Received by | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks |
|---|---|---|

Ver: 06/08/2021

**Eurofins Carlsbad**
1089 N Canal St.
Carlsbad, NM 88220
Phone. 575-988-3199 Fax. 575-988-3199

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information (Sub Contract Lab) | Sampler | Lab PM: Kramer Jessica | Carrier Tracking No(s) | COC No: 890-652 2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone | E-Mail: jessica kramer@eurofinset.com | State of Origin: New Mexico | Page: Page 2 of 2 |
| Company: Eurofins Environment Testing South Centr | | Accreditations Required (See note): NELAP - Texas | | Job #: 890-2039-1 |
| Address: 1211 W Florida Ave , | Due Date Requested: 3/9/2022 | | | |
| City: Midland | TAT Requested (days): | | | |
| State Zip: TX, 79701 | | | | |
| Phone: 432-704-5440(Tel) | PO #: | | | |
| Email | WO #: | | | |
| Project Name: Lovington Deep | Project #: 89000047 | | | |
| Site | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes.**

| | |
|---|---|
| A - HCL | M Hexane |
| B NaOH | N - None |
| C Zn Acetate | O AsNaO2 |
| D - Nitric Acid | P Na2O4S |
| E NaHSO4 | Q - Na2SO3 |
| F - MeOH | R Na2S2O3 |
| G Amchlor | S H2SO4 |
| H Ascorbic Acid | T - TSP Dodecahydrate |
| I - Ice | U Acetone |
| J DI Water | V - MCAA |
| K - EDTA | W pH 4-5 |
| L EDA | Z - other (specify) |

Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8021B/5030B BTEX and MTBE | Total_BTEX_GCV | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | |
| MW-8 (890-2039-10) | 3/3/22 | 11 25 Mountain | | Water | | | X | X | 3 | |
| MW-15 (890-2039-11) | 3/3/22 | 11 45 Mountain | | Water | | | X | X | 3 | |
| MW-16 (890-2039-12) | 3/3/22 | 12 15 Mountain | | Water | | | X | X | 3 | |
| MW-3 (890-2039-13) | 3/3/22 | 13 05 Mountain | | Water | | | X | X | 3 | |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested I II III IV, Other (specify) Primary Deliverable Rank. 2 | Special Instructions/QC Requirements |

| Empty Kit Relinquished by: | Date | Time. | Method of Shipment: |
|---|---|---|---|
| | | | |

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | Clae Clifton 3422 | | | | 3.4.22 13.00 | Xenco |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time | Company |
| 3 | Relinquished by: | Date/Time | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks. |
|---|---|---|
| | | |

Ver: 06/08/2021

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2039-1
SDG Number: SRS 2002-10213

**Login Number: 2039**
**List Number: 1**
**Creator: Clifton, Cloe**

**List Source: Eurofins Carlsbad**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2039-1
SDG Number: SRS 2002-10213

**Login Number: 2039**
**List Number: 2**
**Creator: Lowe, Katie**

**List Source: Eurofins Midland**
**List Creation: 03/04/22 01:20 PM**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2375-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: Lovington Deep

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKRAMER

*Authorized for release by:*
*6/9/2022 3:31:40 PM*

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com



This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Lovington Deep

Laboratory Job ID: 890-2375-1
SDG: Lea County

# Table of Contents

# Definitions/Glossary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

# Case Narrative

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Job ID: 890-2375-1

**Laboratory: Eurofins Carlsbad**

**Narrative**

**Job Narrative**
**890-2375-1**

**Receipt**
The samples were received on 6/3/2022 3:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

**GC VOA**
Method 8021B: The following sample was diluted due to the nature of the sample matrix: MW-12 (890-2375-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Client Sample ID: MW-20

**Lab Sample ID: 890-2375-1**
**Matrix: Water**
**Date Collected: 06/02/22 01:00**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 16:51 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 16:51 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/07/22 16:51 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 06/07/22 16:51 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 16:51 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 06/07/22 16:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* | | *06/07/22 16:51* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | | *06/07/22 16:51* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-19

**Lab Sample ID: 890-2375-2**
**Matrix: Water**
**Date Collected: 06/02/22 01:35**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.0268** | | 0.00200 | 0.000408 | mg/L | | | 06/08/22 22:16 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/08/22 22:16 | 1 |
| **Ethylbenzene** | **0.00322** | | 0.00200 | 0.000657 | mg/L | | | 06/08/22 22:16 | 1 |
| **m-Xylene & p-Xylene** | **0.00928** | | 0.00400 | 0.000629 | mg/L | | | 06/08/22 22:16 | 1 |
| **o-Xylene** | **0.0130** | | 0.00200 | 0.000642 | mg/L | | | 06/08/22 22:16 | 1 |
| **Xylenes, Total** | **0.0223** | | 0.00400 | 0.000642 | mg/L | | | 06/08/22 22:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | | *06/08/22 22:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | | *06/08/22 22:16* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0523** | | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-18

**Lab Sample ID: 890-2375-3**
**Matrix: Water**
**Date Collected: 06/02/22 01:30**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.00223** | | 0.00200 | 0.000408 | mg/L | | | 06/08/22 22:42 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/08/22 22:42 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/08/22 22:42 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 06/08/22 22:42 | 1 |
| **o-Xylene** | **0.00104** | **J** | 0.00200 | 0.000642 | mg/L | | | 06/08/22 22:42 | 1 |
| **Xylenes, Total** | **0.00104** | **J** | 0.00400 | 0.000642 | mg/L | | | 06/08/22 22:42 | 1 |

Eurofins Carlsbad

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Client Sample ID: MW-18

**Lab Sample ID: 890-2375-3**
**Matrix: Water**

**Date Collected: 06/02/22 01:30**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | | 06/08/22 22:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | 06/08/22 22:42 | 1 |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00327** | **J** | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-4

**Lab Sample ID: 890-2375-4**
**Matrix: Water**

**Date Collected: 06/03/22 09:00**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

**Method: 8021B - Volatile Organic Compounds (GC)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 17:17 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 17:17 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/07/22 17:17 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 06/07/22 17:17 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 17:17 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 06/07/22 17:17 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | 06/07/22 17:17 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | | 06/07/22 17:17 | 1 |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-11

**Lab Sample ID: 890-2375-5**
**Matrix: Water**

**Date Collected: 06/03/22 10:15**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

**Method: 8021B - Volatile Organic Compounds (GC)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 17:44 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 17:44 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/07/22 17:44 | 1 |
| **m-Xylene & p-Xylene** | **0.000633** | **J** | 0.00400 | 0.000629 | mg/L | | | 06/07/22 17:44 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 17:44 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 06/07/22 17:44 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | 06/07/22 17:44 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | 06/07/22 17:44 | 1 |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Client Sample ID: MW-12

**Lab Sample ID: 890-2375-6**
**Matrix: Water**
**Date Collected: 06/03/22 10:35**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00816 | U | 0.0400 | 0.00816 | mg/L | | | 06/08/22 00:16 | 20 |
| Toluene | <0.00734 | U | 0.0400 | 0.00734 | mg/L | | | 06/08/22 00:16 | 20 |
| Ethylbenzene | <0.0131 | U | 0.0400 | 0.0131 | mg/L | | | 06/08/22 00:16 | 20 |
| m-Xylene & p-Xylene | <0.0126 | U | 0.0800 | 0.0126 | mg/L | | | 06/08/22 00:16 | 20 |
| o-Xylene | <0.0128 | U | 0.0400 | 0.0128 | mg/L | | | 06/08/22 00:16 | 20 |
| Xylenes, Total | <0.0128 | U | 0.0800 | 0.0128 | mg/L | | | 06/08/22 00:16 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | | *06/08/22 00:16* | *20* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | | *06/08/22 00:16* | *20* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.0131 | U | 0.0800 | 0.0131 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-9

**Lab Sample ID: 890-2375-7**
**Matrix: Water**
**Date Collected: 06/03/22 10:58**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 21:17 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 21:17 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/07/22 21:17 | 1 |
| **m-Xylene & p-Xylene** | **0.00110** | **J** | 0.00400 | 0.000629 | mg/L | | | 06/07/22 21:17 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 21:17 | 1 |
| **Xylenes, Total** | **0.00110** | **J** | 0.00400 | 0.000642 | mg/L | | | 06/07/22 21:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | | *06/07/22 21:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | | *06/07/22 21:17* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00110** | **J** | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-5

**Lab Sample ID: 890-2375-8**
**Matrix: Water**
**Date Collected: 06/03/22 09:30**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 21:42 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 21:42 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/07/22 21:42 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 06/07/22 21:42 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 21:42 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 06/07/22 21:42 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Client Sample ID: MW-5

**Lab Sample ID: 890-2375-8**
**Matrix: Water**
**Date Collected: 06/03/22 09:30**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | | *06/07/22 21:42* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | | *06/07/22 21:42* | *1* |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-8

**Lab Sample ID: 890-2375-9**
**Matrix: Water**
**Date Collected: 06/03/22 11:30**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

**Method: 8021B - Volatile Organic Compounds (GC)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 22:08 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 22:08 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/07/22 22:08 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 06/07/22 22:08 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 22:08 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 06/07/22 22:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *117* | | *70 - 130* | | *06/07/22 22:08* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | | *06/07/22 22:08* | *1* |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-1

**Lab Sample ID: 890-2375-10**
**Matrix: Water**
**Date Collected: 06/03/22 10:30**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

**Method: 8021B - Volatile Organic Compounds (GC)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 22:34 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 22:34 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/07/22 22:34 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 06/07/22 22:34 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 22:34 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 06/07/22 22:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | | *06/07/22 22:34* | *1* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | | *06/07/22 22:34* | *1* |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Client Sample ID: MW-16

**Lab Sample ID: 890-2375-11**
**Matrix: Water**
**Date Collected: 06/03/22 11:30**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 22:59 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 22:59 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/07/22 22:59 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 06/07/22 22:59 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 22:59 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 06/07/22 22:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *117* | | *70 - 130* | | *06/07/22 22:59* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | | *06/07/22 22:59* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-15

**Lab Sample ID: 890-2375-12**
**Matrix: Water**
**Date Collected: 06/03/22 12:30**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 23:25 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 23:25 | 1 |
| **Ethylbenzene** | **0.00123** | **J** | 0.00200 | 0.000657 | mg/L | | | 06/07/22 23:25 | 1 |
| **m-Xylene & p-Xylene** | **0.000946** | **J** | 0.00400 | 0.000629 | mg/L | | | 06/07/22 23:25 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 23:25 | 1 |
| **Xylenes, Total** | **0.000946** | **J** | 0.00400 | 0.000642 | mg/L | | | 06/07/22 23:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | | *06/07/22 23:25* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | | *06/07/22 23:25* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00218** | **J** | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

## Client Sample ID: MW-3

**Lab Sample ID: 890-2375-13**
**Matrix: Water**
**Date Collected: 06/03/22 01:00**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 23:51 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 23:51 | 1 |
| **Ethylbenzene** | **0.0494** | | 0.00200 | 0.000657 | mg/L | | | 06/07/22 23:51 | 1 |
| **m-Xylene & p-Xylene** | **0.0605** | | 0.00400 | 0.000629 | mg/L | | | 06/07/22 23:51 | 1 |
| **o-Xylene** | **0.00358** | | 0.00200 | 0.000642 | mg/L | | | 06/07/22 23:51 | 1 |
| **Xylenes, Total** | **0.0641** | | 0.00400 | 0.000642 | mg/L | | | 06/07/22 23:51 | 1 |

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# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Client Sample ID: MW-3

**Date Collected: 06/03/22 01:00**
**Date Received: 06/03/22 15:02**
**Sample Depth: N/A**

## Lab Sample ID: 890-2375-13

**Matrix: Water**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | | *06/07/22 23:51* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | | *06/07/22 23:51* | *1* |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.113** | | 0.00400 | 0.000657 | mg/L | | | 06/08/22 11:57 | 1 |

# Surrogate Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BFB1 | DFBZ1 | | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | | | | | | | | | | |
| 880-15492-A-6 MS | Matrix Spike | 100 | 106 | | | | | | | | | | |
| 880-15492-A-6 MSD | Matrix Spike Duplicate | 96 | 95 | | | | | | | | | | |
| 880-15603-A-1 MS | Matrix Spike | 105 | 102 | | | | | | | | | | |
| 880-15603-A-1 MSD | Matrix Spike Duplicate | 99 | 94 | | | | | | | | | | |
| 890-2375-1 | MW-20 | 102 | 100 | | | | | | | | | | |
| 890-2375-2 | MW-19 | 105 | 109 | | | | | | | | | | |
| 890-2375-3 | MW-18 | 117 | 99 | | | | | | | | | | |
| 890-2375-4 | MW-4 | 99 | 95 | | | | | | | | | | |
| 890-2375-5 | MW-11 | 103 | 101 | | | | | | | | | | |
| 890-2375-6 | MW-12 | 115 | 101 | | | | | | | | | | |
| 890-2375-7 | MW-9 | 116 | 103 | | | | | | | | | | |
| 890-2375-8 | MW-5 | 109 | 98 | | | | | | | | | | |
| 890-2375-9 | MW-8 | 117 | 108 | | | | | | | | | | |
| 890-2375-10 | MW-1 | 104 | 97 | | | | | | | | | | |
| 890-2375-11 | MW-16 | 117 | 107 | | | | | | | | | | |
| 890-2375-12 | MW-15 | 114 | 108 | | | | | | | | | | |
| 890-2375-13 | MW-3 | 109 | 94 | | | | | | | | | | |
| LCS 880-27001/3 | Lab Control Sample | 113 | 110 | | | | | | | | | | |
| LCS 880-27099/3 | Lab Control Sample | 103 | 96 | | | | | | | | | | |
| LCSD 880-27001/4 | Lab Control Sample Dup | 99 | 106 | | | | | | | | | | |
| LCSD 880-27099/4 | Lab Control Sample Dup | 102 | 95 | | | | | | | | | | |
| MB 880-27001/8 | Method Blank | 76 | 98 | | | | | | | | | | |
| MB 880-27099/8 | Method Blank | 79 | 99 | | | | | | | | | | |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC)

**Lab Sample ID: MB 880-27001/8**
**Matrix: Water**
**Analysis Batch: 27001**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/07/22 15:03 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/07/22 15:03 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/07/22 15:03 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 06/07/22 15:03 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/07/22 15:03 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 06/07/22 15:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *76* | | *70 - 130* | | *06/07/22 15:03* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | | *06/07/22 15:03* | *1* |

**Lab Sample ID: LCS 880-27001/3**
**Matrix: Water**
**Analysis Batch: 27001**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1106 | | mg/L | | 111 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1085 | | mg/L | | 109 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1064 | | mg/L | | 106 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.2110 | | mg/L | | 105 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1054 | | mg/L | | 105 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* |

**Lab Sample ID: LCSD 880-27001/4**
**Matrix: Water**
**Analysis Batch: 27001**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1151 | | mg/L | | 115 | 70 - 130 | 4 | 20 |
| Toluene | | | 0.100 | 0.1127 | | mg/L | | 113 | 70 - 130 | 4 | 20 |
| Ethylbenzene | | | 0.100 | 0.1145 | | mg/L | | 114 | 70 - 130 | 7 | 20 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2274 | | mg/L | | 114 | 70 - 130 | 7 | 20 |
| o-Xylene | | | 0.100 | 0.1093 | | mg/L | | 109 | 70 - 130 | 4 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* |

**Lab Sample ID: 880-15492-A-6 MS**
**Matrix: Water**
**Analysis Batch: 27001**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.1119 | | mg/L | | 112 | 70 - 130 | | |
| Toluene | <0.000367 | U | 0.100 | 0.1114 | | mg/L | | 111 | 70 - 130 | | |

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: 880-15492-A-6 MS**
**Matrix: Water**
**Analysis Batch: 27001**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.000657 | U | 0.100 | 0.1117 | | mg/L | | 112 | 70 - 130 |
| m-Xylene & p-Xylene | 0.000795 | J | 0.200 | 0.2196 | | mg/L | | 109 | 70 - 130 |
| o-Xylene | <0.000642 | U | 0.100 | 0.1066 | | mg/L | | 107 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* |

**Lab Sample ID: 880-15492-A-6 MSD**
**Matrix: Water**
**Analysis Batch: 27001**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.09338 | | mg/L | | 93 | 70 - 130 | 18 | 25 |
| Toluene | <0.000367 | U | 0.100 | 0.09276 | | mg/L | | 93 | 70 - 130 | 18 | 25 |
| Ethylbenzene | <0.000657 | U | 0.100 | 0.09423 | | mg/L | | 94 | 70 - 130 | 17 | 25 |
| m-Xylene & p-Xylene | 0.000795 | J | 0.200 | 0.1868 | | mg/L | | 93 | 70 - 130 | 16 | 25 |
| o-Xylene | <0.000642 | U | 0.100 | 0.09186 | | mg/L | | 92 | 70 - 130 | 15 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *95* | | *70 - 130* |

**Lab Sample ID: MB 880-27099/8**
**Matrix: Water**
**Analysis Batch: 27099**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 06/08/22 18:18 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 06/08/22 18:18 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 06/08/22 18:18 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 06/08/22 18:18 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 06/08/22 18:18 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 06/08/22 18:18 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *79* | | *70 - 130* | | *06/08/22 18:18* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | | *06/08/22 18:18* | *1* |

**Lab Sample ID: LCS 880-27099/3**
**Matrix: Water**
**Analysis Batch: 27099**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.08535 | | mg/L | | 85 | 70 - 130 |
| Toluene | 0.100 | 0.08504 | | mg/L | | 85 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.08616 | | mg/L | | 86 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1695 | | mg/L | | 85 | 70 - 130 |

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: LCS 880-27099/3**
**Matrix: Water**
**Analysis Batch: 27099**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | | | 0.100 | 0.08628 | | mg/L | | 86 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* |

**Lab Sample ID: LCSD 880-27099/4**
**Matrix: Water**
**Analysis Batch: 27099**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.08124 | | mg/L | | 81 | 70 - 130 | 5 | 20 |
| Toluene | | | 0.100 | 0.08218 | | mg/L | | 82 | 70 - 130 | 3 | 20 |
| Ethylbenzene | | | 0.100 | 0.08320 | | mg/L | | 83 | 70 - 130 | 3 | 20 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1637 | | mg/L | | 82 | 70 - 130 | 3 | 20 |
| o-Xylene | | | 0.100 | 0.08418 | | mg/L | | 84 | 70 - 130 | 2 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *95* | | *70 - 130* |

**Lab Sample ID: 880-15603-A-1 MS**
**Matrix: Water**
**Analysis Batch: 27099**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.1120 | | mg/L | | 112 | 70 - 130 | | |
| Toluene | <0.000367 | U | 0.100 | 0.1085 | | mg/L | | 109 | 70 - 130 | | |
| Ethylbenzene | <0.000657 | U | 0.100 | 0.1137 | | mg/L | | 114 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.000629 | U | 0.200 | 0.2269 | | mg/L | | 113 | 70 - 130 | | |
| o-Xylene | <0.000642 | U | 0.100 | 0.1114 | | mg/L | | 111 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* |

**Lab Sample ID: 880-15603-A-1 MSD**
**Matrix: Water**
**Analysis Batch: 27099**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.09774 | | mg/L | | 98 | 70 - 130 | 14 | 25 |
| Toluene | <0.000367 | U | 0.100 | 0.09650 | | mg/L | | 96 | 70 - 130 | 12 | 25 |
| Ethylbenzene | <0.000657 | U | 0.100 | 0.09849 | | mg/L | | 98 | 70 - 130 | 14 | 25 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.200 | 0.1941 | | mg/L | | 97 | 70 - 130 | 16 | 25 |
| o-Xylene | <0.000642 | U | 0.100 | 0.09284 | | mg/L | | 93 | 70 - 130 | 18 | 25 |

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: 880-15603-A-1 MSD**
**Matrix: Water**
**Analysis Batch: 27099**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* |

# QC Association Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## GC VOA

### Analysis Batch: 27001

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-2375-1 | MW-20 | Total/NA | Water | 8021B | |
| 890-2375-4 | MW-4 | Total/NA | Water | 8021B | |
| 890-2375-5 | MW-11 | Total/NA | Water | 8021B | |
| 890-2375-6 | MW-12 | Total/NA | Water | 8021B | |
| 890-2375-7 | MW-9 | Total/NA | Water | 8021B | |
| 890-2375-8 | MW-5 | Total/NA | Water | 8021B | |
| 890-2375-9 | MW-8 | Total/NA | Water | 8021B | |
| 890-2375-10 | MW-1 | Total/NA | Water | 8021B | |
| 890-2375-11 | MW-16 | Total/NA | Water | 8021B | |
| 890-2375-12 | MW-15 | Total/NA | Water | 8021B | |
| 890-2375-13 | MW-3 | Total/NA | Water | 8021B | |
| MB 880-27001/8 | Method Blank | Total/NA | Water | 8021B | |
| LCS 880-27001/3 | Lab Control Sample | Total/NA | Water | 8021B | |
| LCSD 880-27001/4 | Lab Control Sample Dup | Total/NA | Water | 8021B | |
| 880-15492-A-6 MS | Matrix Spike | Total/NA | Water | 8021B | |
| 880-15492-A-6 MSD | Matrix Spike Duplicate | Total/NA | Water | 8021B | |

### Analysis Batch: 27085

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-2375-1 | MW-20 | Total/NA | Water | Total BTEX | |
| 890-2375-2 | MW-19 | Total/NA | Water | Total BTEX | |
| 890-2375-3 | MW-18 | Total/NA | Water | Total BTEX | |
| 890-2375-4 | MW-4 | Total/NA | Water | Total BTEX | |
| 890-2375-5 | MW-11 | Total/NA | Water | Total BTEX | |
| 890-2375-6 | MW-12 | Total/NA | Water | Total BTEX | |
| 890-2375-7 | MW-9 | Total/NA | Water | Total BTEX | |
| 890-2375-8 | MW-5 | Total/NA | Water | Total BTEX | |
| 890-2375-9 | MW-8 | Total/NA | Water | Total BTEX | |
| 890-2375-10 | MW-1 | Total/NA | Water | Total BTEX | |
| 890-2375-11 | MW-16 | Total/NA | Water | Total BTEX | |
| 890-2375-12 | MW-15 | Total/NA | Water | Total BTEX | |
| 890-2375-13 | MW-3 | Total/NA | Water | Total BTEX | |

### Analysis Batch: 27099

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-2375-2 | MW-19 | Total/NA | Water | 8021B | |
| 890-2375-3 | MW-18 | Total/NA | Water | 8021B | |
| MB 880-27099/8 | Method Blank | Total/NA | Water | 8021B | |
| LCS 880-27099/3 | Lab Control Sample | Total/NA | Water | 8021B | |
| LCSD 880-27099/4 | Lab Control Sample Dup | Total/NA | Water | 8021B | |
| 880-15603-A-1 MS | Matrix Spike | Total/NA | Water | 8021B | |
| 880-15603-A-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8021B | |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Client Sample ID: MW-20
**Date Collected: 06/02/22 01:00**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-1
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 16:51 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-19
**Date Collected: 06/02/22 01:35**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-2
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27099 | 06/08/22 22:16 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-18
**Date Collected: 06/02/22 01:30**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-3
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27099 | 06/08/22 22:42 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-4
**Date Collected: 06/03/22 09:00**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-4
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 17:17 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-11
**Date Collected: 06/03/22 10:15**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-5
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 17:44 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-12
**Date Collected: 06/03/22 10:35**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-6
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 20 | 5 mL | 5 mL | 27001 | 06/08/22 00:16 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Client Sample ID: MW-9
**Date Collected: 06/03/22 10:58**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-7
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 21:17 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-5
**Date Collected: 06/03/22 09:30**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-8
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 21:42 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-8
**Date Collected: 06/03/22 11:30**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-9
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 22:08 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-1
**Date Collected: 06/03/22 10:30**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-10
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 22:34 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-16
**Date Collected: 06/03/22 11:30**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-11
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 22:59 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

## Client Sample ID: MW-15
**Date Collected: 06/03/22 12:30**
**Date Received: 06/03/22 15:02**

## Lab Sample ID: 890-2375-12
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 23:25 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

**Client Sample ID: MW-3**
**Date Collected: 06/03/22 01:00**
**Date Received: 06/03/22 15:02**

**Lab Sample ID: 890-2375-13**
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 27001 | 06/07/22 23:51 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 27085 | 06/08/22 11:57 | SM | XEN MID |

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-21-22 | 06-30-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Total BTEX | | Water | Total BTEX |

# Method Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8021B | Volatile Organic Compounds (GC) | SW846 | XEN MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | XEN MID |
| 5030B | Purge and Trap | SW846 | XEN MID |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2375-1
SDG: Lea County

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---|---|---|---|---|---|
| 890-2375-1 | MW-20 | Water | 06/02/22 01:00 | 06/03/22 15:02 | N/A |
| 890-2375-2 | MW-19 | Water | 06/02/22 01:35 | 06/03/22 15:02 | N/A |
| 890-2375-3 | MW-18 | Water | 06/02/22 01:30 | 06/03/22 15:02 | N/A |
| 890-2375-4 | MW-4 | Water | 06/03/22 09:00 | 06/03/22 15:02 | N/A |
| 890-2375-5 | MW-11 | Water | 06/03/22 10:15 | 06/03/22 15:02 | N/A |
| 890-2375-6 | MW-12 | Water | 06/03/22 10:35 | 06/03/22 15:02 | N/A |
| 890-2375-7 | MW-9 | Water | 06/03/22 10:58 | 06/03/22 15:02 | N/A |
| 890-2375-8 | MW-5 | Water | 06/03/22 09:30 | 06/03/22 15:02 | N/A |
| 890-2375-9 | MW-8 | Water | 06/03/22 11:30 | 06/03/22 15:02 | N/A |
| 890-2375-10 | MW-1 | Water | 06/03/22 10:30 | 06/03/22 15:02 | N/A |
| 890-2375-11 | MW-16 | Water | 06/03/22 11:30 | 06/03/22 15:02 | N/A |
| 890-2375-12 | MW-15 | Water | 06/03/22 12:30 | 06/03/22 15:02 | N/A |
| 890-2375-13 | MW-3 | Water | 06/03/22 01:00 | 06/03/22 15:02 | N/A |

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

| | | | |
|---|---|---|---|
| Project Manager: | David Adkins | Bill to: (if different) | Plains All American |
| Company Name: | Talon LPE | Company Name: | Pipeline |
| Address: | 408 Texas St. | Address: | Attn: Camille Bryant |
| City, State ZIP: | Artesia, NM 88210 | City, State ZIP: | SRS # 2002-10312 |
| Phone: | 575-441-4835 | Email: | dadkins@talonlpe.com |

**Work Order Comments**

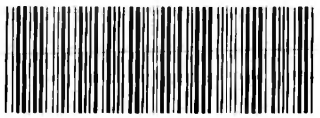
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Lovington Deep | Turn Around | |
| Project Number: | | ☒ Routine ☐ Rush | |
| Project Location: | Lea County | Due Date: | |
| Sampler's Name: | Matthew Gomez, Roy Bell | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | SRS # 2002-10312 | | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | (Yes) No | Wet Ice: | (Yes) No |
| Samples Received Intact: | (Yes) No | Thermometer ID: | TNM-007 |
| Cooler Custody Seals: | Yes No (N/A) | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes No (N/A) | Temperature Reading: | 6.0 |
| Total Containers: | | Corrected Temperature: | 5.8 |

ANALYSIS REQUEST

Parameters: BTEX 8021B




**Preservative Codes**

None: NO — DI Water: $H_2O$
Cool: Cool — MeOH: Me
HCL: HC — $HNO_3$: HN
$H_2SO_4$: $H_2$ — NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | | Sample Comments |
|---|---|---|---|---|---|---|---|---|
| MW-20 | GW | 6/2/22 | 1:00 | N/A | | 3 | X | Email Analyticals to: CJ Bryant@paalp.com Maochoa@paalp.com |
| MW-19 | | | 1:35 | | | | | |
| MW-18 | | | 1:30 | | | | | |
| MW-4 | | 6/3/22 | 9:00 | | | | | |
| MW-11 | | | 10:15 | | | | | |
| MW-12 | | | 10:35 | | | | | |
| MW-9 | | | 10:58 | | | | | |
| MW-5 | | | 9:30 | | | | | |
| MW-8 | | | 11:30 | | | | | |
| MW-1 | | | 10:30 | | | | | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 Matthew Gomez | Cice Chy | 6.3.22 1502 | | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date: 08/25/2020 Rev. 2020.2

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

| | | | |
|---|---|---|---|
| Project Manager: | David Adkins | Bill to: (if different) | Plains All American |
| Company Name: | Talon LPE | Company Name: | Pipeline |
| Address: | 408 Texas St. | Address: | Attn: Camille Bryant |
| City, State ZIP: | Artesia, NM 88210 | City, State ZIP: | SRS # 2002-10312 |
| Phone: | 575-441-4835 | Email: | dadkins@talonlpe.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Lovington Deep | Turn Around | |
| Project Number: | | ☒ Routine ☐ Rush | |
| Project Location: | Lea County | Due Date: | |
| Sampler's Name: | Matthew Gomez, Ray B | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | SRS # 2002-10312 | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Samples Received Intact: | Yes No | Thermometer ID: | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | | |
| Sample Custody Seals: | Yes No N/A | Temperature Reading: | | |
| Total Containers: | | Corrected Temperature: | | |

**Preservative Codes**

None: NO | DI Water: $H_2O$
Cool: Cool | MeOH: Me
HCL: HC | $HNO_3$: HN
$H_2SO_4$: $H_2$ | NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | Pres. Code | Parameters: BTEX 8021B | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| MW-16 | GW | 6/3/22 | 11:30 | N/A | | 3 | | X | Email Analyticals to: CJBryant@paalp.com Maochoa@paalp.com |
| MW-15 | " | " | 12:30 | " | | " | | " | |
| MW-3 | " | " | 1:00 | " | | " | | " | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471



| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|
| 1 | Matthew Gomez | | 6.3.22 1502 | 2 | | |
| 3 | | | | 4 | | |
| 5 | | | | 6 | | |

Revised Date: 08/25/2020 Rev. 2020.2

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2375-1
SDG Number: Lea County

**Login Number: 2375**
**List Number: 1**
**Creator: Clifton, Cloe**

**List Source: Eurofins Carlsbad**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2375-1
SDG Number: Lea County

**Login Number: 2375**
**List Number: 2**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**
**List Creation: 06/07/22 12:08 PM**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

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# ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2947-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: Lovington Deep

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKRAMER

*Authorized for release by:*
*9/20/2022 4:17:36 PM*

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com



This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Lovington Deep

Laboratory Job ID: 890-2947-1
SDG: Lea County

# Table of Contents

# Definitions/Glossary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

# Case Narrative

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Job ID: 890-2947-1

### Laboratory: Eurofins Carlsbad

**Narrative**

**Job Narrative**
**890-2947-1**

**Receipt**
The samples were received on 9/13/2022 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.0°C

**GC VOA**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Client Sample ID: MW-20
**Date Collected: 09/13/22 10:40**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-1
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 14:31 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 14:31 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 14:31 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 14:31 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 14:31 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 14:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *117* | | *70 - 130* | | *09/16/22 14:31* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | | *09/16/22 14:31* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

## Client Sample ID: MW-4
**Date Collected: 09/13/22 11:41**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-2
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 14:57 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 14:57 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 14:57 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 14:57 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 14:57 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 14:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | | *09/16/22 14:57* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | | *09/16/22 14:57* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

## Client Sample ID: MW-11
**Date Collected: 09/13/22 11:46**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-3
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 15:22 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 15:22 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 15:22 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 15:22 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 15:22 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 15:22 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Client Sample ID: MW-11
**Date Collected: 09/13/22 11:46**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-3
**Matrix: Water**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | | *09/16/22 15:22* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | | *09/16/22 15:22* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

## Client Sample ID: MW-12
**Date Collected: 09/13/22 11:22**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-4
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 19:12 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 19:12 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 19:12 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 19:12 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 19:12 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 19:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | | *09/16/22 19:12* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | | *09/16/22 19:12* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

## Client Sample ID: MW-9
**Date Collected: 09/13/22 12:06**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-5
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 19:37 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 19:37 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 19:37 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 19:37 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 19:37 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 19:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | | *09/16/22 19:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | | *09/16/22 19:37* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Client Sample ID: MW-5
**Date Collected: 09/13/22 10:42**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-6
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 20:03 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 20:03 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 20:03 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 20:03 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 20:03 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 20:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | | *09/16/22 20:03* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | | *09/16/22 20:03* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

## Client Sample ID: MW-8
**Date Collected: 09/13/22 12:30**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-7
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 20:29 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 20:29 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 20:29 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 20:29 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 20:29 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 20:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | | *09/16/22 20:29* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | | *09/16/22 20:29* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

## Client Sample ID: MW-1
**Date Collected: 09/13/22 11:50**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-8
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 20:54 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 20:54 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 20:54 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 20:54 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 20:54 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 20:54 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Client Sample ID: MW-1
**Date Collected: 09/13/22 11:50**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-8
**Matrix: Water**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | | 09/16/22 20:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 110 | | 70 - 130 | | 09/16/22 20:54 | 1 |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

## Client Sample ID: MW-16
**Date Collected: 09/13/22 13:23**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-9
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 21:20 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 21:20 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 21:20 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 21:20 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 21:20 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 21:20 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | 09/16/22 21:20 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | 09/16/22 21:20 | 1 |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

## Client Sample ID: MW-15
**Date Collected: 09/13/22 13:10**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-10
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 21:45 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 21:45 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 21:45 | 1 |
| **m-Xylene & p-Xylene** | **0.00122** | **J** | 0.00400 | 0.000629 | mg/L | | | 09/16/22 21:45 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 21:45 | 1 |
| **Xylenes, Total** | **0.00122** | **J** | 0.00400 | 0.000642 | mg/L | | | 09/16/22 21:45 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 124 | | 70 - 130 | | 09/16/22 21:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 111 | | 70 - 130 | | 09/16/22 21:45 | 1 |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00122** | **J** | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Client Sample ID: MW-3
**Date Collected: 09/13/22 11:05**
**Date Received: 09/13/22 15:25**
**Sample Depth: N/A**

## Lab Sample ID: 890-2947-11
**Matrix: Water**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 22:11 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 22:11 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 22:11 | 1 |
| **m-Xylene & p-Xylene** | **0.0306** | | 0.00400 | 0.000629 | mg/L | | | 09/16/22 22:11 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 22:11 | 1 |
| **Xylenes, Total** | **0.0306** | | 0.00400 | 0.000642 | mg/L | | | 09/16/22 22:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* | | *09/16/22 22:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | | *09/16/22 22:11* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0306** | | 0.00400 | 0.000657 | mg/L | | | 09/16/22 17:37 | 1 |

# Surrogate Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Water**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | BFB1 | DFBZ1 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 890-2947-1 | MW-20 | 117 | 106 |
| 890-2947-2 | MW-4 | 103 | 94 |
| 890-2947-3 | MW-11 | 115 | 111 |
| 890-2947-4 | MW-12 | 112 | 89 |
| 890-2947-5 | MW-9 | 110 | 103 |
| 890-2947-6 | MW-5 | 111 | 105 |
| 890-2947-7 | MW-8 | 116 | 108 |
| 890-2947-8 | MW-1 | 117 | 110 |
| 890-2947-9 | MW-16 | 108 | 105 |
| 890-2947-10 | MW-15 | 124 | 111 |
| 890-2947-11 | MW-3 | 120 | 104 |
| LCS 880-34643/3 | Lab Control Sample | 119 | 103 |
| LCSD 880-34643/4 | Lab Control Sample Dup | 103 | 98 |
| MB 880-34643/8 | Method Blank | 74 | 87 |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC)

### Lab Sample ID: MB 880-34643/8
### Matrix: Water
### Analysis Batch: 34643

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/16/22 13:14 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/16/22 13:14 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/16/22 13:14 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/16/22 13:14 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/16/22 13:14 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/16/22 13:14 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *74* | | *70 - 130* | | *09/16/22 13:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *87* | | *70 - 130* | | *09/16/22 13:14* | *1* |

### Lab Sample ID: LCS 880-34643/3
### Matrix: Water
### Analysis Batch: 34643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.08968 | | mg/L | | 90 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09012 | | mg/L | | 90 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1105 | | mg/L | | 110 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.1796 | | mg/L | | 90 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.08973 | | mg/L | | 90 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* |

### Lab Sample ID: LCSD 880-34643/4
### Matrix: Water
### Analysis Batch: 34643

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09118 | | mg/L | | 91 | 70 - 130 | 2 | 20 |
| Toluene | | | 0.100 | 0.08927 | | mg/L | | 89 | 70 - 130 | 1 | 20 |
| Ethylbenzene | | | 0.100 | 0.1071 | | mg/L | | 107 | 70 - 130 | 3 | 20 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1714 | | mg/L | | 86 | 70 - 130 | 5 | 20 |
| o-Xylene | | | 0.100 | 0.08652 | | mg/L | | 87 | 70 - 130 | 4 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* |

# QC Association Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## GC VOA

### Analysis Batch: 34643

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-2947-1 | MW-20 | Total/NA | Water | 8021B | |
| 890-2947-2 | MW-4 | Total/NA | Water | 8021B | |
| 890-2947-3 | MW-11 | Total/NA | Water | 8021B | |
| 890-2947-4 | MW-12 | Total/NA | Water | 8021B | |
| 890-2947-5 | MW-9 | Total/NA | Water | 8021B | |
| 890-2947-6 | MW-5 | Total/NA | Water | 8021B | |
| 890-2947-7 | MW-8 | Total/NA | Water | 8021B | |
| 890-2947-8 | MW-1 | Total/NA | Water | 8021B | |
| 890-2947-9 | MW-16 | Total/NA | Water | 8021B | |
| 890-2947-10 | MW-15 | Total/NA | Water | 8021B | |
| 890-2947-11 | MW-3 | Total/NA | Water | 8021B | |
| MB 880-34643/8 | Method Blank | Total/NA | Water | 8021B | |
| LCS 880-34643/3 | Lab Control Sample | Total/NA | Water | 8021B | |
| LCSD 880-34643/4 | Lab Control Sample Dup | Total/NA | Water | 8021B | |

### Analysis Batch: 34698

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-2947-1 | MW-20 | Total/NA | Water | Total BTEX | |
| 890-2947-2 | MW-4 | Total/NA | Water | Total BTEX | |
| 890-2947-3 | MW-11 | Total/NA | Water | Total BTEX | |
| 890-2947-4 | MW-12 | Total/NA | Water | Total BTEX | |
| 890-2947-5 | MW-9 | Total/NA | Water | Total BTEX | |
| 890-2947-6 | MW-5 | Total/NA | Water | Total BTEX | |
| 890-2947-7 | MW-8 | Total/NA | Water | Total BTEX | |
| 890-2947-8 | MW-1 | Total/NA | Water | Total BTEX | |
| 890-2947-9 | MW-16 | Total/NA | Water | Total BTEX | |
| 890-2947-10 | MW-15 | Total/NA | Water | Total BTEX | |
| 890-2947-11 | MW-3 | Total/NA | Water | Total BTEX | |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Client Sample ID: MW-20
**Date Collected: 09/13/22 10:40**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-1
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 14:31 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

## Client Sample ID: MW-4
**Date Collected: 09/13/22 11:41**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-2
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 14:57 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

## Client Sample ID: MW-11
**Date Collected: 09/13/22 11:46**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-3
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 15:22 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

## Client Sample ID: MW-12
**Date Collected: 09/13/22 11:22**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-4
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 19:12 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

## Client Sample ID: MW-9
**Date Collected: 09/13/22 12:06**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-5
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 19:37 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

## Client Sample ID: MW-5
**Date Collected: 09/13/22 10:42**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-6
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 20:03 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Client Sample ID: MW-8
**Date Collected: 09/13/22 12:30**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-7
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 20:29 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

## Client Sample ID: MW-1
**Date Collected: 09/13/22 11:50**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-8
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 20:54 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

## Client Sample ID: MW-16
**Date Collected: 09/13/22 13:23**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-9
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 21:20 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

## Client Sample ID: MW-15
**Date Collected: 09/13/22 13:10**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-10
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 21:45 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

## Client Sample ID: MW-3
**Date Collected: 09/13/22 11:05**
**Date Received: 09/13/22 15:25**

## Lab Sample ID: 890-2947-11
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34643 | 09/16/22 22:11 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34698 | 09/16/22 17:37 | AJ | EET MID |

**Laboratory References:**
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-22-24 | 06-30-23 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Total BTEX | | Water | Total BTEX |

# Method Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 5030B | Purge and Trap | SW846 | EET MID |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2947-1
SDG: Lea County

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---|---|---|---|---|---|
| 890-2947-1 | MW-20 | Water | 09/13/22 10:40 | 09/13/22 15:25 | N/A |
| 890-2947-2 | MW-4 | Water | 09/13/22 11:41 | 09/13/22 15:25 | N/A |
| 890-2947-3 | MW-11 | Water | 09/13/22 11:46 | 09/13/22 15:25 | N/A |
| 890-2947-4 | MW-12 | Water | 09/13/22 11:22 | 09/13/22 15:25 | N/A |
| 890-2947-5 | MW-9 | Water | 09/13/22 12:06 | 09/13/22 15:25 | N/A |
| 890-2947-6 | MW-5 | Water | 09/13/22 10:42 | 09/13/22 15:25 | N/A |
| 890-2947-7 | MW-8 | Water | 09/13/22 12:30 | 09/13/22 15:25 | N/A |
| 890-2947-8 | MW-1 | Water | 09/13/22 11:50 | 09/13/22 15:25 | N/A |
| 890-2947-9 | MW-16 | Water | 09/13/22 13:23 | 09/13/22 15:25 | N/A |
| 890-2947-10 | MW-15 | Water | 09/13/22 13:10 | 09/13/22 15:25 | N/A |
| 890-2947-11 | MW-3 | Water | 09/13/22 11:05 | 09/13/22 15:25 | N/A |

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Work Order No:** _____

www.xenco.com Page 1 of 2

| | | | |
|---|---|---|---|
| Project Manager: | David Adkins | Bill to: (if different) | Plains All American Pipeline |
| Company Name: | Talon LPE | Company Name: | Attn: Camille Bryant |
| Address: | 408 Texas St. | Address: | |
| City, State ZIP: | Artesia, NM 88210 | City, State ZIP: | SRS# 2002-10312 |
| Phone: | 575-441-4835 | Email: | dadkins@talonlpe.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Lovington Deep | Turn Around | |
| Project Number: | | ☑ Routine ☐ Rush | |
| Project Location: | Lea, County | Due Date: | |
| Sampler's Name: | M. Gomez, K. Taylor, J. Flores | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | SRS# 2002-10312 | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | (Yes) No | Wet Ice: | (Yes) No | |
| Samples Received Intact: | (Yes) No | Thermometer ID: | TM007 | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | -0.2 | |
| Sample Custody Seals: | Yes No (N/A) | Temperature Reading: | 3.2 | |
| Total Containers: | | Corrected Temperature: | 3.0 | |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | BTEX 8021B |
|---|---|---|---|---|---|---|---|
| MW-20 | GW | 9/13/22 | 10:40 | N/A | | 3 | X |
| MW-4 | | | 11:41 | | | | |
| MW-11 | | | 11:46 | | | | |
| MW-12 | | | 11:22 | | | | |
| MW-9 | | | 12:06 | | | | |
| MW-5 | | | 10:42 | | | | |
| MW-8 | | | 12:30 | | | | |
| MW-1 | | | 11:50 | | | | |
| MW-16 | | | 1:25 | | | | |
| MW-15 | | | 1:10 | | | | |

890-2947 Chain of Custody

**Preservative Codes**

None: NO | DI Water: $H_2O$
Cool: Cool | MeOH: Me
HCL: HC | $HNO_3$: HN
$H_2SO_4$: $H_2$ | NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

**Sample Comments**

Email Analyticals to:
CJBryant@paalp.com
Maochoa@paalp.com

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|
| 1 | Matthew Gomez | | 9.13.22 1525 | | | |
| 3 | | | | 4 | | |
| 5 | | | | 6 | | |

Revised Date: 08/25/2020 Rev. 2020.2

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

| | | | |
|---|---|---|---|
| Project Manager: | David Adkins | Bill to: (if different) | Plains All American Pipeline |
| Company Name: | Talon LPE | Company Name: | Attn: Camille Bryant |
| Address: | 408 Texas St. | Address: | |
| City, State ZIP: | Artesia, NM 88210 | City, State ZIP: | SRS# 2002-10312 |
| Phone: | 575-441-4835 | Email: | dadkins@talonlpe.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Lovington Deep | Turn Around | ☑ Routine ☐ Rush |
| Project Number: | | Due Date: | |
| Project Location: | Lea, County | TAT starts the day received by the lab, if received by 4:30pm | |
| Sampler's Name: | M. Gomez, K. Taylor, B. Flores | | |
| PO #: | SRS# 2002-10312 | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Samples Received Intact: | Yes No | Thermometer ID: | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | | |
| Sample Custody Seals: | Yes No N/A | Temperature Reading: | | |
| Total Containers: | | Corrected Temperature: | | |

ANALYSIS REQUEST

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | Pres. Code | Parameters: BTEX 8021B |
|---|---|---|---|---|---|---|---|---|
| MW-3 | GW | 9/13/22 | 11:05 | N/A | | 3 | | X |

**Preservative Codes**

None: NO DI Water: $H_2O$
Cool: Cool MeOH: Me
HCL: HC $HNO_3$: HN
$H_2S0_4$: $H_2$ NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

**Sample Comments**

Email Analyticals to:
CJBryant@paalp.com
Maochoa@paalp.com

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 Matthew Gomez | | 9-13-22 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date: 08/25/2020 Rev. 2020.2

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2947-1
SDG Number: Lea County

**Login Number: 2947**
**List Number: 1**
**Creator: Clifton, Cloe**

**List Source: Eurofins Carlsbad**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2947-1
SDG Number: Lea County

**Login Number: 2947**
**List Number: 2**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**
**List Creation: 09/15/22 10:35 AM**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |

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# ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2961-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: Lovington Deep

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKramer

*Authorized for release by:*
*9/21/2022 3:17:09 PM*

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com



This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Lovington Deep

Laboratory Job ID: 890-2961-1
SDG: Lea County

# Table of Contents

# Definitions/Glossary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

# Case Narrative

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

## Job ID: 890-2961-1

**Laboratory: Eurofins Carlsbad**

**Narrative**

**Job Narrative**
**890-2961-1**

**Receipt**

The samples were received on 9/14/2022 1:51 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

**GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

## Client Sample ID: MW-19

**Lab Sample ID: 890-2961-1**
**Matrix: Water**
**Date Collected: 09/14/22 10:36**
**Date Received: 09/14/22 13:51**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.000773** | **J** | 0.00200 | 0.000408 | mg/L | | | 09/20/22 15:01 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/20/22 15:01 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/20/22 15:01 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/20/22 15:01 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/20/22 15:01 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/20/22 15:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *127* | | *70 - 130* | | *09/20/22 15:01* | *1* |
| *1,4-Difluorobenzene (Surr)* | *70* | | *70 - 130* | | *09/20/22 15:01* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.000773** | **J** | 0.00400 | 0.000657 | mg/L | | | 09/20/22 16:41 | 1 |

## Client Sample ID: MW-18

**Lab Sample ID: 890-2961-2**
**Matrix: Water**
**Date Collected: 09/14/22 10:52**
**Date Received: 09/14/22 13:51**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/20/22 15:27 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/20/22 15:27 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/20/22 15:27 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/20/22 15:27 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/20/22 15:27 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/20/22 15:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | | *09/20/22 15:27* | *1* |
| *1,4-Difluorobenzene (Surr)* | *82* | | *70 - 130* | | *09/20/22 15:27* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 09/20/22 16:41 | 1 |

# Surrogate Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BFB1 | DFBZ1 | | | | | | | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | | | | | | | | |
| 880-19061-A-10 MS | Matrix Spike | 113 | 83 | | | | | | | | |
| 880-19061-A-10 MSD | Matrix Spike Duplicate | 119 | 84 | | | | | | | | |
| 890-2961-1 | MW-19 | 127 | 70 | | | | | | | | |
| 890-2961-2 | MW-18 | 113 | 82 | | | | | | | | |
| LCS 880-34926/3 | Lab Control Sample | 112 | 84 | | | | | | | | |
| LCSD 880-34926/4 | Lab Control Sample Dup | 117 | 77 | | | | | | | | |
| MB 880-34926/8 | Method Blank | 84 | 78 | | | | | | | | |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC)

**Lab Sample ID: MB 880-34926/8**
**Matrix: Water**
**Analysis Batch: 34926**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 09/20/22 12:26 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 09/20/22 12:26 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 09/20/22 12:26 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 09/20/22 12:26 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 09/20/22 12:26 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 09/20/22 12:26 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *84* | | *70 - 130* | | *09/20/22 12:26* | *1* |
| *1,4-Difluorobenzene (Surr)* | *78* | | *70 - 130* | | *09/20/22 12:26* | *1* |

**Lab Sample ID: LCS 880-34926/3**
**Matrix: Water**
**Analysis Batch: 34926**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1027 | | mg/L | | 103 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09718 | | mg/L | | 97 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.09454 | | mg/L | | 95 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.1899 | | mg/L | | 95 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09069 | | mg/L | | 91 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *84* | | *70 - 130* |

**Lab Sample ID: LCSD 880-34926/4**
**Matrix: Water**
**Analysis Batch: 34926**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09488 | | mg/L | | 95 | 70 - 130 | 8 | 20 |
| Toluene | | | 0.100 | 0.09209 | | mg/L | | 92 | 70 - 130 | 5 | 20 |
| Ethylbenzene | | | 0.100 | 0.08794 | | mg/L | | 88 | 70 - 130 | 7 | 20 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1765 | | mg/L | | 88 | 70 - 130 | 7 | 20 |
| o-Xylene | | | 0.100 | 0.08521 | | mg/L | | 85 | 70 - 130 | 6 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *117* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *77* | | *70 - 130* |

**Lab Sample ID: 880-19061-A-10 MS**
**Matrix: Water**
**Analysis Batch: 34926**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.09017 | | mg/L | | 90 | 70 - 130 | | |
| Toluene | 0.000692 | J | 0.100 | 0.08982 | | mg/L | | 89 | 70 - 130 | | |

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: 880-19061-A-10 MS**
**Matrix: Water**
**Analysis Batch: 34926**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.000657 | U | 0.100 | 0.08395 | | mg/L | | 84 | 70 - 130 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.200 | 0.1722 | | mg/L | | 86 | 70 - 130 |
| o-Xylene | <0.000642 | U | 0.100 | 0.08483 | | mg/L | | 85 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *83* | | *70 - 130* |

**Lab Sample ID: 880-19061-A-10 MSD**
**Matrix: Water**
**Analysis Batch: 34926**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.09138 | | mg/L | | 91 | 70 - 130 | 1 | 25 |
| Toluene | 0.000692 | J | 0.100 | 0.08551 | | mg/L | | 85 | 70 - 130 | 5 | 25 |
| Ethylbenzene | <0.000657 | U | 0.100 | 0.08246 | | mg/L | | 82 | 70 - 130 | 2 | 25 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.200 | 0.1689 | | mg/L | | 84 | 70 - 130 | 2 | 25 |
| o-Xylene | <0.000642 | U | 0.100 | 0.08303 | | mg/L | | 83 | 70 - 130 | 2 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *84* | | *70 - 130* |

# QC Association Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

## GC VOA

### Analysis Batch: 34926

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-2961-1 | MW-19 | Total/NA | Water | 8021B | |
| 890-2961-2 | MW-18 | Total/NA | Water | 8021B | |
| MB 880-34926/8 | Method Blank | Total/NA | Water | 8021B | |
| LCS 880-34926/3 | Lab Control Sample | Total/NA | Water | 8021B | |
| LCSD 880-34926/4 | Lab Control Sample Dup | Total/NA | Water | 8021B | |
| 880-19061-A-10 MS | Matrix Spike | Total/NA | Water | 8021B | |
| 880-19061-A-10 MSD | Matrix Spike Duplicate | Total/NA | Water | 8021B | |

### Analysis Batch: 34998

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-2961-1 | MW-19 | Total/NA | Water | Total BTEX | |
| 890-2961-2 | MW-18 | Total/NA | Water | Total BTEX | |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

## Client Sample ID: MW-19

**Date Collected: 09/14/22 10:36**
**Date Received: 09/14/22 13:51**

## Lab Sample ID: 890-2961-1

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34926 | 09/20/22 15:01 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34998 | 09/20/22 16:41 | SM | EET MID |

## Client Sample ID: MW-18

**Date Collected: 09/14/22 10:52**
**Date Received: 09/14/22 13:51**

## Lab Sample ID: 890-2961-2

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 34926 | 09/20/22 15:27 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 34998 | 09/20/22 16:41 | SM | EET MID |

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-22-24 | 06-30-23 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Total BTEX | | Water | Total BTEX |

# Method Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 5030B | Purge and Trap | SW846 | EET MID |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-2961-1
SDG: Lea County

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 890-2961-1 | MW-19 | Water | 09/14/22 10:36 | 09/14/22 13:51 |
| 890-2961-2 | MW-18 | Water | 09/14/22 10:52 | 09/14/22 13:51 |

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Work Order No:** _____

www.xenco.com Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | David Adkins | Bill to: (if different) | Plains All American Pipeline |
| Company Name: | Talon LPE | Company Name: | Attn: Camille Bryant |
| Address: | 408 Texas St. | Address: | |
| City, State ZIP: | Artesia, NM 88210 | City, State ZIP: | SRS# 2002-10312 |
| Phone: | 575-441-4835 | Email: | dadkins@talonlpe.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Lovington Deep | Turn Around | |
| Project Number: | | ☑ Routine ☐ Rush | |
| Project Location: | Lea, County | Due Date: | |
| Sampler's Name: | M. Gomez, K. Taylor | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | SRS# 2002-10312 | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Samples Received Intact: | Yes No | Thermometer ID: | TRM-00 | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | -0.2 | |
| Sample Custody Seals: | Yes No N/A | Temperature Reading: | 4.4 | |
| Total Containers: | | Corrected Temperature: | 4.2 | |

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: $H_2O$
Cool: Cool MeOH: Me
HCL: HC $HNO_3$: HN
$H_2S0_4$: $H_2$ NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | Pres. Code | BTEX 8021B |
|---|---|---|---|---|---|---|---|---|
| MW-19 | GW | 9/14/22 | 10:36 | N/A | | 3 | | X |
| MW-18 | 1 | 1 | 10:52 | 1 | | 1 | | 1 |

Parameters

890-2961 Chain of Custody

**Sample Comments**

Email Analyticals to:
CJBryant@paalp.com
Maochoa@paalp.com

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 Matthew Gomez | Amanda Stef | 9/14/22 1355 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date: 08/25/2020 Rev. 2020.2

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2961-1
SDG Number: Lea County

**Login Number: 2961**
**List Number: 1**
**Creator: Stutzman, Amanda**

**List Source: Eurofins Carlsbad**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2961-1
SDG Number: Lea County

**Login Number: 2961**
**List Number: 2**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**
**List Creation: 09/16/22 11:04 AM**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: David Adkins
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Generated 12/16/2022 8:53:12 AM

## JOB DESCRIPTION

Lovington Depp
SDG NUMBER Lea Co

## JOB NUMBER

890-3579-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

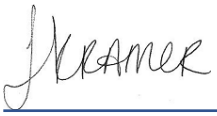
See page two for job notes and contact information.

# Eurofins Carlsbad

## Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated
12/16/2022 8:53:12 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Talon/LPE
Project/Site: Lovington Depp

Laboratory Job ID: 890-3579-1
SDG: Lea Co

# Table of Contents

# Definitions/Glossary

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| *1 | LCS/LCSD RPD exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

# Case Narrative

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Job ID: 890-3579-1

**Laboratory: Eurofins Carlsbad**

**Narrative**

**Job Narrative**
**890-3579-1**

**Receipt**
The samples were received on 12/5/2022 3:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

**GC VOA**
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41753 and analytical batch 880-41835 was outside the control limits.

Method 8021B: The surrogate recovery for the blank associated with analytical batch 880-41835 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-9 (890-3579-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-41835 recovered outside control limits for the following analytes: Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Client Sample ID: MW-11

**Lab Sample ID: 890-3579-1**
**Matrix: Water**
**Date Collected: 12/05/22 09:15**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/15/22 21:14 | 1 |
| Toluene | <0.000367 | U *1 | 0.00200 | 0.000367 | mg/L | | | 12/15/22 21:14 | 1 |
| Ethylbenzene | <0.000657 | U *1 | 0.00200 | 0.000657 | mg/L | | | 12/15/22 21:14 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/15/22 21:14 | 1 |
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/15/22 21:14 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/15/22 21:14 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 12/15/22 21:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | | *12/15/22 21:14* | *1* |
| *4-Bromofluorobenzene (Surr)* | *80* | | *70 - 130* | | *12/15/22 21:14* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-9

**Lab Sample ID: 890-3579-2**
**Matrix: Water**
**Date Collected: 12/05/22 09:35**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/15/22 21:34 | 1 |
| **Toluene** | **0.000424** | **J *1** | 0.00200 | 0.000367 | mg/L | | | 12/15/22 21:34 | 1 |
| Ethylbenzene | <0.000657 | U *1 | 0.00200 | 0.000657 | mg/L | | | 12/15/22 21:34 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/15/22 21:34 | 1 |
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/15/22 21:34 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/15/22 21:34 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 12/15/22 21:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *118* | | *70 - 130* | | *12/15/22 21:34* | *1* |
| *4-Bromofluorobenzene (Surr)* | *66* | *S1-* | *70 - 130* | | *12/15/22 21:34* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-8

**Lab Sample ID: 890-3579-3**
**Matrix: Water**
**Date Collected: 12/05/22 09:55**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/15/22 23:45 | 1 |
| **Toluene** | **0.000429** | **J *1** | 0.00200 | 0.000367 | mg/L | | | 12/15/22 23:45 | 1 |
| Ethylbenzene | <0.000657 | U *1 | 0.00200 | 0.000657 | mg/L | | | 12/15/22 23:45 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/15/22 23:45 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Client Sample ID: MW-8

**Lab Sample ID: 890-3579-3**
**Matrix: Water**
**Date Collected: 12/05/22 09:55**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

### Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/15/22 23:45 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/15/22 23:45 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 12/15/22 23:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | | *12/15/22 23:45* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 130* | | *12/15/22 23:45* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-5

**Lab Sample ID: 890-3579-4**
**Matrix: Water**
**Date Collected: 12/05/22 11:15**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/16/22 00:05 | 1 |
| Toluene | <0.000367 | U *1 | 0.00200 | 0.000367 | mg/L | | | 12/16/22 00:05 | 1 |
| Ethylbenzene | <0.000657 | U *1 | 0.00200 | 0.000657 | mg/L | | | 12/16/22 00:05 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/16/22 00:05 | 1 |
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/16/22 00:05 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/16/22 00:05 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 12/16/22 00:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | | *12/16/22 00:05* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 130* | | *12/16/22 00:05* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-3

**Lab Sample ID: 890-3579-5**
**Matrix: Water**
**Date Collected: 12/05/22 12:00**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/16/22 00:26 | 1 |
| **Toluene** | **0.000367** | **J *1** | 0.00200 | 0.000367 | mg/L | | | 12/16/22 00:26 | 1 |
| **Ethylbenzene** | **0.0269** | ***1** | 0.00200 | 0.000657 | mg/L | | | 12/16/22 00:26 | 1 |
| **m-Xylene & p-Xylene** | **0.0211** | ***1** | 0.00400 | 0.000629 | mg/L | | | 12/16/22 00:26 | 1 |
| **o-Xylene** | **0.00106** | **J *1** | 0.00200 | 0.000642 | mg/L | | | 12/16/22 00:26 | 1 |
| **Xylenes, Total** | **0.0222** | ***1** | 0.00400 | 0.000642 | mg/L | | | 12/16/22 00:26 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 12/16/22 00:26 | 1 |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Client Sample ID: MW-3

**Lab Sample ID: 890-3579-5**
**Matrix: Water**
**Date Collected: 12/05/22 12:00**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | | *12/16/22 00:26* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* | | *12/16/22 00:26* | *1* |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0494** | | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-15

**Lab Sample ID: 890-3579-6**
**Matrix: Water**
**Date Collected: 12/05/22 12:05**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/16/22 00:46 | 1 |
| Toluene | <0.000367 | U *1 | 0.00200 | 0.000367 | mg/L | | | 12/16/22 00:46 | 1 |
| **Ethylbenzene** | **0.00224** | ***1** | 0.00200 | 0.000657 | mg/L | | | 12/16/22 00:46 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/16/22 00:46 | 1 |
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/16/22 00:46 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/16/22 00:46 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 12/16/22 00:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | | *12/16/22 00:46* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | | *12/16/22 00:46* | *1* |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00224** | **J** | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-16

**Lab Sample ID: 890-3579-7**
**Matrix: Water**
**Date Collected: 12/05/22 13:00**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/16/22 01:07 | 1 |
| Toluene | <0.000367 | U *1 | 0.00200 | 0.000367 | mg/L | | | 12/16/22 01:07 | 1 |
| Ethylbenzene | <0.000657 | U *1 | 0.00200 | 0.000657 | mg/L | | | 12/16/22 01:07 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/16/22 01:07 | 1 |
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/16/22 01:07 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/16/22 01:07 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 12/16/22 01:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | | *12/16/22 01:07* | *1* |
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | | *12/16/22 01:07* | *1* |

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Client Sample ID: MW-16
**Lab Sample ID: 890-3579-7**

**Date Collected: 12/05/22 13:00**
**Matrix: Water**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-18
**Lab Sample ID: 890-3579-8**

**Date Collected: 12/05/22 13:20**
**Matrix: Water**
**Date Received: 12/05/22 15:11**
**Sample Depth: N/A**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00408 | U | 0.0200 | 0.00408 | mg/L | | | 12/16/22 02:49 | 10 |
| Toluene | <0.00367 | U *1 | 0.0200 | 0.00367 | mg/L | | | 12/16/22 02:49 | 10 |
| Ethylbenzene | <0.00657 | U *1 | 0.0200 | 0.00657 | mg/L | | | 12/16/22 02:49 | 10 |
| m-Xylene & p-Xylene | <0.00629 | U *1 | 0.0400 | 0.00629 | mg/L | | | 12/16/22 02:49 | 10 |
| o-Xylene | <0.00642 | U *1 | 0.0200 | 0.00642 | mg/L | | | 12/16/22 02:49 | 10 |
| Xylenes, Total | <0.00642 | U *1 | 0.0400 | 0.00642 | mg/L | | | 12/16/22 02:49 | 10 |
| Methyl tert-butyl ether | <0.0258 | U | 0.100 | 0.0258 | mg/L | | | 12/16/22 02:49 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | | *12/16/22 02:49* | *10* |
| *4-Bromofluorobenzene (Surr)* | *83* | | *70 - 130* | | *12/16/22 02:49* | *10* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00657 | U | 0.0400 | 0.00657 | mg/L | | | 12/16/22 09:00 | 1 |

# Surrogate Summary

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | DFBZ1 (70-130) | BFB1 (70-130) |
| 890-3579-1 | MW-11 | 111 | 80 |
| 890-3579-2 | MW-9 | 118 | 66 S1- |
| 890-3579-3 | MW-8 | 97 | 93 |
| 890-3579-4 | MW-5 | 103 | 98 |
| 890-3579-5 | MW-3 | 103 | 102 |
| 890-3579-6 | MW-15 | 101 | 103 |
| 890-3579-7 | MW-16 | 98 | 109 |
| 890-3579-8 | MW-18 | 113 | 83 |
| LCS 880-41835/65 | Lab Control Sample | 93 | 103 |
| LCSD 880-41835/66 | Lab Control Sample Dup | 96 | 104 |
| MB 880-41753/5-A | Method Blank | 110 | 57 S1- |
| MB 880-41835/70 | Method Blank | 111 | 61 S1- |

**Surrogate Legend**

DFBZ = 1,4-Difluorobenzene (Surr)

BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Method: 8021B - Volatile Organic Compounds (GC)

**Lab Sample ID: MB 880-41753/5-A**
**Matrix: Water**
**Analysis Batch: 41835**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 41753**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *12/13/22 13:00* | *12/15/22 06:45* | *1* |
| *4-Bromofluorobenzene (Surr)* | *57* | *S1-* | *70 - 130* | *12/13/22 13:00* | *12/15/22 06:45* | *1* |

**Lab Sample ID: MB 880-41835/70**
**Matrix: Water**
**Analysis Batch: 41835**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/15/22 18:21 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 12/15/22 18:21 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 12/15/22 18:21 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 12/15/22 18:21 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 12/15/22 18:21 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 12/15/22 18:21 | 1 |
| Methyl tert-butyl ether | <0.00258 | U | 0.0100 | 0.00258 | mg/L | | | 12/15/22 18:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | | *12/15/22 18:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *61* | *S1-* | *70 - 130* | | *12/15/22 18:21* | *1* |

**Lab Sample ID: LCS 880-41835/65**
**Matrix: Water**
**Analysis Batch: 41835**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.09380 | | mg/L | | 94 | 70 - 130 |
| Toluene | 0.100 | 0.09587 | | mg/L | | 96 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1067 | | mg/L | | 107 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2374 | | mg/L | | 119 | 70 - 130 |
| o-Xylene | 0.100 | 0.1169 | | mg/L | | 117 | 70 - 130 |
| Methyl tert-butyl ether | 0.500 | 0.4430 | | mg/L | | 89 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* |

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: LCSD 880-41835/66**
**Matrix: Water**
**Analysis Batch: 41835**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.07714 | | mg/L | | 77 | 70 - 130 | 19 | 20 |
| Toluene | | | 0.100 | 0.07760 | *1 | mg/L | | 78 | 70 - 130 | 21 | 20 |
| Ethylbenzene | | | 0.100 | 0.08348 | *1 | mg/L | | 83 | 70 - 130 | 24 | 20 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1842 | *1 | mg/L | | 92 | 70 - 130 | 25 | 20 |
| o-Xylene | | | 0.100 | 0.09237 | *1 | mg/L | | 92 | 70 - 130 | 23 | 20 |
| Methyl tert-butyl ether | | | 0.500 | 0.4353 | | mg/L | | 87 | 70 - 130 | 2 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* |

# QC Association Summary

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## GC VOA

### Prep Batch: 41753

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-41753/5-A | Method Blank | Total/NA | Water | 5035 | |

### Analysis Batch: 41835

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-3579-1 | MW-11 | Total/NA | Water | 8021B | |
| 890-3579-2 | MW-9 | Total/NA | Water | 8021B | |
| 890-3579-3 | MW-8 | Total/NA | Water | 8021B | |
| 890-3579-4 | MW-5 | Total/NA | Water | 8021B | |
| 890-3579-5 | MW-3 | Total/NA | Water | 8021B | |
| 890-3579-6 | MW-15 | Total/NA | Water | 8021B | |
| 890-3579-7 | MW-16 | Total/NA | Water | 8021B | |
| 890-3579-8 | MW-18 | Total/NA | Water | 8021B | |
| MB 880-41753/5-A | Method Blank | Total/NA | Water | 8021B | 41753 |
| MB 880-41835/70 | Method Blank | Total/NA | Water | 8021B | |
| LCS 880-41835/65 | Lab Control Sample | Total/NA | Water | 8021B | |
| LCSD 880-41835/66 | Lab Control Sample Dup | Total/NA | Water | 8021B | |

### Analysis Batch: 41997

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-3579-1 | MW-11 | Total/NA | Water | Total BTEX | |
| 890-3579-2 | MW-9 | Total/NA | Water | Total BTEX | |
| 890-3579-3 | MW-8 | Total/NA | Water | Total BTEX | |
| 890-3579-4 | MW-5 | Total/NA | Water | Total BTEX | |
| 890-3579-5 | MW-3 | Total/NA | Water | Total BTEX | |
| 890-3579-6 | MW-15 | Total/NA | Water | Total BTEX | |
| 890-3579-7 | MW-16 | Total/NA | Water | Total BTEX | |
| 890-3579-8 | MW-18 | Total/NA | Water | Total BTEX | |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Client Sample ID: MW-11
**Date Collected: 12/05/22 09:15**
**Date Received: 12/05/22 15:11**

## Lab Sample ID: 890-3579-1
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/15/22 21:14 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41997 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-9
**Date Collected: 12/05/22 09:35**
**Date Received: 12/05/22 15:11**

## Lab Sample ID: 890-3579-2
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/15/22 21:34 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41997 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-8
**Date Collected: 12/05/22 09:55**
**Date Received: 12/05/22 15:11**

## Lab Sample ID: 890-3579-3
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/15/22 23:45 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41997 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-5
**Date Collected: 12/05/22 11:15**
**Date Received: 12/05/22 15:11**

## Lab Sample ID: 890-3579-4
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/16/22 00:05 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41997 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-3
**Date Collected: 12/05/22 12:00**
**Date Received: 12/05/22 15:11**

## Lab Sample ID: 890-3579-5
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/16/22 00:26 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41997 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-15
**Date Collected: 12/05/22 12:05**
**Date Received: 12/05/22 15:11**

## Lab Sample ID: 890-3579-6
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/16/22 00:46 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41997 | 12/16/22 09:00 | SM | EET MID |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Client Sample ID: MW-16
**Date Collected: 12/05/22 13:00**
**Date Received: 12/05/22 15:11**

## Lab Sample ID: 890-3579-7
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/16/22 01:07 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41997 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-18
**Date Collected: 12/05/22 13:20**
**Date Received: 12/05/22 15:11**

## Lab Sample ID: 890-3579-8
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 10 | 5 mL | 5 mL | 41835 | 12/16/22 02:49 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41997 | 12/16/22 09:00 | SM | EET MID |

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-22-24 | 06-30-23 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Total BTEX | | Water | Total BTEX |

# Method Summary

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 5030B | Purge and Trap | SW846 | EET MID |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Talon/LPE
Project/Site: Lovington Depp

Job ID: 890-3579-1
SDG: Lea Co

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---|---|---|---|---|---|
| 890-3579-1 | MW-11 | Water | 12/05/22 09:15 | 12/05/22 15:11 | N/A |
| 890-3579-2 | MW-9 | Water | 12/05/22 09:35 | 12/05/22 15:11 | N/A |
| 890-3579-3 | MW-8 | Water | 12/05/22 09:55 | 12/05/22 15:11 | N/A |
| 890-3579-4 | MW-5 | Water | 12/05/22 11:15 | 12/05/22 15:11 | N/A |
| 890-3579-5 | MW-3 | Water | 12/05/22 12:00 | 12/05/22 15:11 | N/A |
| 890-3579-6 | MW-15 | Water | 12/05/22 12:05 | 12/05/22 15:11 | N/A |
| 890-3579-7 | MW-16 | Water | 12/05/22 13:00 | 12/05/22 15:11 | N/A |
| 890-3579-8 | MW-18 | Water | 12/05/22 13:20 | 12/05/22 15:11 | N/A |

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | David Adkins | Bill to: (if different) | |
| Company Name: | Talon LPE | Company Name: | |
| Address: | 408 Texas Ave | Address: | |
| City, State ZIP: | Artesia, NM 88210 | City, State ZIP: | |
| Phone: | 575-441-4835 Email: | | |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Lovington Deep | Turn Around | |
| Project Number: | | ☒ Routine ☐ Rush | |
| Project Location: | Lea Co. | Due Date: | |
| Sampler's Name: | | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | SRS # 2003-10312 | | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | (Yes) No | Wet Ice: | (Yes) No |
| Samples Received Intact: | (Yes) No | Thermometer ID: | TWm007 |
| Cooler Custody Seals: | Yes No (N/A) | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes No (N/A) | Temperature Reading: | 6.0 |
| Total Containers: | | Corrected Temperature: | 5.8 |

**ANALYSIS REQUEST**

**Preservative Codes**

None: NO | DI Water: $H_2O$
Cool: Cool | MeOH: Me
HCL: HC | $HNO_3$: HN
$H_2SO_4$: $H_2$ | NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | Pres. Code | Parameters: BTEX 8021B | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| MW-11 | GW | 12-5-22 | 0915 | NA | | 3 | | X | |
| ~~MW-12~~ MW-9 | | | 0935 | | | | | X | |
| MW-8 | | | 0955 | | | | | X | |
| MW-5 | | | 1115 | | | | | X | |
| MW-3 | | | 1200 | | | | | X | |
| MW-15 | | | 1205 | | | | | X | |
| MW-16 | | | 1300 | | | | | X | |
| MW-18 | | | 1320 | | | | | X | |

890-3579 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | 12.5.22 1511 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date: 08/25/2020 Rev. 2020.2

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3579-1
SDG Number: Lea Co

**Login Number: 3579**
**List Number: 1**
**Creator: Clifton, Cloe**

**List Source: Eurofins Carlsbad**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3579-1
SDG Number: Lea Co

**Login Number: 3579**
**List Number: 2**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**
**List Creation: 12/07/22 11:07 AM**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: David Adkins
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Generated 12/19/2022 3:39:54 PM Revision 1

## JOB DESCRIPTION

Lovington Deep
SDG NUMBER Lea, County

## JOB NUMBER

880-22228-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.





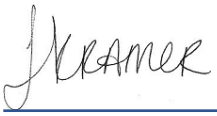
my EOL

# Eurofins Midland

## Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated
12/19/2022 3:39:54 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Talon/LPE
Project/Site: Lovington Deep

Laboratory Job ID: 880-22228-1
SDG: Lea, County

# Table of Contents

# Definitions/Glossary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| *1 | LCS/LCSD RPD exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

# Case Narrative

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## Job ID: 880-22228-1

### Laboratory: Eurofins Midland

**Narrative**

**Job Narrative**
**880-22228-1**

REVISION

The report being provided is a revision of the original report sent on 12/16/2022. The report (revision 1) is being revised due to Per client email, correcting sample ID from MW-14 to MW-19.

Report revision history

**Receipt**
The samples were received on 12/2/2022 2:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

**GC VOA**
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-41835 recovered outside control limits for the following analytes: Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene.

Method 8021B: The surrogate recovery for the blank associated with analytical batch 880-41835 was outside the control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41753 and analytical batch 880-41835 was outside the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## Client Sample ID: MW-1
**Date Collected: 12/02/22 09:32**
**Date Received: 12/02/22 14:37**

## Lab Sample ID: 880-22228-1
**Matrix: Water**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/15/22 18:50 | 1 |
| **Toluene** | **0.000657** | **J *1** | 0.00200 | 0.000367 | mg/L | | | 12/15/22 18:50 | 1 |
| Ethylbenzene | <0.000657 | U *1 | 0.00200 | 0.000657 | mg/L | | | 12/15/22 18:50 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/15/22 18:50 | 1 |
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/15/22 18:50 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/15/22 18:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | | *12/15/22 18:50* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 130* | | *12/15/22 18:50* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.000657** | **J** | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-20
**Date Collected: 12/02/22 09:50**
**Date Received: 12/02/22 14:37**

## Lab Sample ID: 880-22228-2
**Matrix: Water**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/15/22 19:11 | 1 |
| Toluene | <0.000367 | U *1 | 0.00200 | 0.000367 | mg/L | | | 12/15/22 19:11 | 1 |
| Ethylbenzene | <0.000657 | U *1 | 0.00200 | 0.000657 | mg/L | | | 12/15/22 19:11 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/15/22 19:11 | 1 |
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/15/22 19:11 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/15/22 19:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | | *12/15/22 19:11* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* | | *12/15/22 19:11* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-4
**Date Collected: 12/02/22 10:06**
**Date Received: 12/02/22 14:37**

## Lab Sample ID: 880-22228-3
**Matrix: Water**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/15/22 19:31 | 1 |
| Toluene | <0.000367 | U *1 | 0.00200 | 0.000367 | mg/L | | | 12/15/22 19:31 | 1 |
| Ethylbenzene | <0.000657 | U *1 | 0.00200 | 0.000657 | mg/L | | | 12/15/22 19:31 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/15/22 19:31 | 1 |
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/15/22 19:31 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/15/22 19:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | | *12/15/22 19:31* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | | *12/15/22 19:31* | *1* |

Eurofins Midland

# Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## Client Sample ID: MW-4
**Date Collected: 12/02/22 10:06**
**Date Received: 12/02/22 14:37**

**Lab Sample ID: 880-22228-3**
**Matrix: Water**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.000657 | U | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-12
**Date Collected: 12/02/22 10:10**
**Date Received: 12/02/22 14:37**

**Lab Sample ID: 880-22228-4**
**Matrix: Water**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00408 | U | 0.0200 | 0.00408 | mg/L | | | 12/15/22 21:55 | 10 |
| Toluene | <0.00367 | U *1 | 0.0200 | 0.00367 | mg/L | | | 12/15/22 21:55 | 10 |
| Ethylbenzene | <0.00657 | U *1 | 0.0200 | 0.00657 | mg/L | | | 12/15/22 21:55 | 10 |
| m-Xylene & p-Xylene | <0.00629 | U *1 | 0.0400 | 0.00629 | mg/L | | | 12/15/22 21:55 | 10 |
| o-Xylene | <0.00642 | U *1 | 0.0200 | 0.00642 | mg/L | | | 12/15/22 21:55 | 10 |
| Xylenes, Total | <0.00642 | U *1 | 0.0400 | 0.00642 | mg/L | | | 12/15/22 21:55 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *120* | | *70 - 130* | | *12/15/22 21:55* | *10* |
| *4-Bromofluorobenzene (Surr)* | *77* | | *70 - 130* | | *12/15/22 21:55* | *10* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00657 | U | 0.0400 | 0.00657 | mg/L | | | 12/16/22 09:00 | 1 |

## Client Sample ID: MW-19
**Date Collected: 12/02/22 11:00**
**Date Received: 12/02/22 14:37**

**Lab Sample ID: 880-22228-5**
**Matrix: Water**

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.00110** | **J** | 0.00200 | 0.000408 | mg/L | | | 12/15/22 19:52 | 1 |
| **Toluene** | **0.000628** | **J *1** | 0.00200 | 0.000367 | mg/L | | | 12/15/22 19:52 | 1 |
| Ethylbenzene | <0.000657 | U *1 | 0.00200 | 0.000657 | mg/L | | | 12/15/22 19:52 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.00400 | 0.000629 | mg/L | | | 12/15/22 19:52 | 1 |
| o-Xylene | <0.000642 | U *1 | 0.00200 | 0.000642 | mg/L | | | 12/15/22 19:52 | 1 |
| Xylenes, Total | <0.000642 | U *1 | 0.00400 | 0.000642 | mg/L | | | 12/15/22 19:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | | *12/15/22 19:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | | *12/15/22 19:52* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00173** | **J** | 0.00400 | 0.000657 | mg/L | | | 12/16/22 09:00 | 1 |

# Surrogate Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Water**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | DFBZ1 | BFB1 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 880-22228-1 | MW-1 | 101 | 94 |
| 880-22228-1 MS | MW-1 | 102 | 97 |
| 880-22228-1 MSD | MW-1 | 90 | 91 |
| 880-22228-2 | MW-20 | 93 | 97 |
| 880-22228-3 | MW-4 | 97 | 105 |
| 880-22228-4 | MW-12 | 120 | 77 |
| 880-22228-5 | MW-19 | 113 | 103 |
| LCS 880-41835/65 | Lab Control Sample | 93 | 103 |
| LCSD 880-41835/66 | Lab Control Sample Dup | 96 | 104 |
| MB 880-41753/5-A | Method Blank | 110 | 57 S1- |
| MB 880-41835/70 | Method Blank | 111 | 61 S1- |

**Surrogate Legend**

DFBZ = 1,4-Difluorobenzene (Surr)
BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## Method: 8021B - Volatile Organic Compounds (GC)

### Lab Sample ID: MB 880-41753/5-A
### Matrix: Water
### Analysis Batch: 41835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41753

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | 12/13/22 13:00 | 12/15/22 06:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *12/13/22 13:00* | *12/15/22 06:45* | *1* |
| *4-Bromofluorobenzene (Surr)* | *57* | *S1-* | *70 - 130* | *12/13/22 13:00* | *12/15/22 06:45* | *1* |

### Lab Sample ID: MB 880-41835/70
### Matrix: Water
### Analysis Batch: 41835

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.00200 | 0.000408 | mg/L | | | 12/15/22 18:21 | 1 |
| Toluene | <0.000367 | U | 0.00200 | 0.000367 | mg/L | | | 12/15/22 18:21 | 1 |
| Ethylbenzene | <0.000657 | U | 0.00200 | 0.000657 | mg/L | | | 12/15/22 18:21 | 1 |
| m-Xylene & p-Xylene | <0.000629 | U | 0.00400 | 0.000629 | mg/L | | | 12/15/22 18:21 | 1 |
| o-Xylene | <0.000642 | U | 0.00200 | 0.000642 | mg/L | | | 12/15/22 18:21 | 1 |
| Xylenes, Total | <0.000642 | U | 0.00400 | 0.000642 | mg/L | | | 12/15/22 18:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | | *12/15/22 18:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *61* | *S1-* | *70 - 130* | | *12/15/22 18:21* | *1* |

### Lab Sample ID: LCS 880-41835/65
### Matrix: Water
### Analysis Batch: 41835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.09380 | | mg/L | | 94 | 70 - 130 |
| Toluene | 0.100 | 0.09587 | | mg/L | | 96 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1067 | | mg/L | | 107 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2374 | | mg/L | | 119 | 70 - 130 |
| o-Xylene | 0.100 | 0.1169 | | mg/L | | 117 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* |

### Lab Sample ID: LCSD 880-41835/66
### Matrix: Water
### Analysis Batch: 41835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.07714 | | mg/L | | 77 | 70 - 130 | 19 | 20 |

# QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: LCSD 880-41835/66**
**Matrix: Water**
**Analysis Batch: 41835**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | | | 0.100 | 0.07760 | *1 | mg/L | | 78 | 70 - 130 | 21 | 20 |
| Ethylbenzene | | | 0.100 | 0.08348 | *1 | mg/L | | 83 | 70 - 130 | 24 | 20 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1842 | *1 | mg/L | | 92 | 70 - 130 | 25 | 20 |
| o-Xylene | | | 0.100 | 0.09237 | *1 | mg/L | | 92 | 70 - 130 | 23 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* |

**Lab Sample ID: 880-22228-1 MS**
**Matrix: Water**
**Analysis Batch: 41835**

**Client Sample ID: MW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.09880 | | mg/L | | 99 | 70 - 130 |
| Toluene | 0.000657 | J *1 | 0.100 | 0.08447 | | mg/L | | 84 | 70 - 130 |
| Ethylbenzene | <0.000657 | U *1 | 0.100 | 0.08930 | | mg/L | | 89 | 70 - 130 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.200 | 0.1900 | | mg/L | | 95 | 70 - 130 |
| o-Xylene | <0.000642 | U *1 | 0.100 | 0.09544 | | mg/L | | 95 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* |

**Lab Sample ID: 880-22228-1 MSD**
**Matrix: Water**
**Analysis Batch: 41835**

**Client Sample ID: MW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000408 | U | 0.100 | 0.09196 | | mg/L | | 92 | 70 - 130 | 7 | 25 |
| Toluene | 0.000657 | J *1 | 0.100 | 0.08674 | | mg/L | | 86 | 70 - 130 | 3 | 25 |
| Ethylbenzene | <0.000657 | U *1 | 0.100 | 0.09033 | | mg/L | | 90 | 70 - 130 | 1 | 25 |
| m-Xylene & p-Xylene | <0.000629 | U *1 | 0.200 | 0.1930 | | mg/L | | 96 | 70 - 130 | 2 | 25 |
| o-Xylene | <0.000642 | U *1 | 0.100 | 0.09614 | | mg/L | | 96 | 70 - 130 | 1 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 130* |

# QC Association Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## GC VOA

### Prep Batch: 41753

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-41753/5-A | Method Blank | Total/NA | Water | 5035 | |

### Analysis Batch: 41835

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-22228-1 | MW-1 | Total/NA | Water | 8021B | |
| 880-22228-2 | MW-20 | Total/NA | Water | 8021B | |
| 880-22228-3 | MW-4 | Total/NA | Water | 8021B | |
| 880-22228-4 | MW-12 | Total/NA | Water | 8021B | |
| 880-22228-5 | MW-19 | Total/NA | Water | 8021B | |
| MB 880-41753/5-A | Method Blank | Total/NA | Water | 8021B | 41753 |
| MB 880-41835/70 | Method Blank | Total/NA | Water | 8021B | |
| LCS 880-41835/65 | Lab Control Sample | Total/NA | Water | 8021B | |
| LCSD 880-41835/66 | Lab Control Sample Dup | Total/NA | Water | 8021B | |
| 880-22228-1 MS | MW-1 | Total/NA | Water | 8021B | |
| 880-22228-1 MSD | MW-1 | Total/NA | Water | 8021B | |

### Analysis Batch: 41995

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-22228-1 | MW-1 | Total/NA | Water | Total BTEX | |
| 880-22228-2 | MW-20 | Total/NA | Water | Total BTEX | |
| 880-22228-3 | MW-4 | Total/NA | Water | Total BTEX | |
| 880-22228-4 | MW-12 | Total/NA | Water | Total BTEX | |
| 880-22228-5 | MW-19 | Total/NA | Water | Total BTEX | |

# Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## Client Sample ID: MW-1
**Date Collected: 12/02/22 09:32**
**Date Received: 12/02/22 14:37**

## Lab Sample ID: 880-22228-1
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/15/22 18:50 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41995 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-20
**Date Collected: 12/02/22 09:50**
**Date Received: 12/02/22 14:37**

## Lab Sample ID: 880-22228-2
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/15/22 19:11 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41995 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-4
**Date Collected: 12/02/22 10:06**
**Date Received: 12/02/22 14:37**

## Lab Sample ID: 880-22228-3
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/15/22 19:31 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41995 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-12
**Date Collected: 12/02/22 10:10**
**Date Received: 12/02/22 14:37**

## Lab Sample ID: 880-22228-4
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 10 | 5 mL | 5 mL | 41835 | 12/15/22 21:55 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41995 | 12/16/22 09:00 | SM | EET MID |

## Client Sample ID: MW-19
**Date Collected: 12/02/22 11:00**
**Date Received: 12/02/22 14:37**

## Lab Sample ID: 880-22228-5
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 41835 | 12/15/22 19:52 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 41995 | 12/16/22 09:00 | SM | EET MID |

**Laboratory References:**
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-22-24 | 06-30-23 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Total BTEX | | Water | Total BTEX |

# Method Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 5030B | Purge and Trap | SW846 | EET MID |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 880-22228-1
SDG: Lea, County

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-22228-1 | MW-1 | Water | 12/02/22 09:32 | 12/02/22 14:37 |
| 880-22228-2 | MW-20 | Water | 12/02/22 09:50 | 12/02/22 14:37 |
| 880-22228-3 | MW-4 | Water | 12/02/22 10:06 | 12/02/22 14:37 |
| 880-22228-4 | MW-12 | Water | 12/02/22 10:10 | 12/02/22 14:37 |
| 880-22228-5 | MW-19 | Water | 12/02/22 11:00 | 12/02/22 14:37 |

eurofins | Environment Testing Xenco

# Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

**Work Order No:** 22228

www.xenco.com Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager | David Adkins | Bill to (if different) | Plains All American Pipeline |
| Company Name | Talon LPE | Company Name. | Attn Camille Bryant |
| Address | 408 Texas St | Address | |
| City, State ZIP | Artesia, NM 88210 | City, State ZIP | SRS# 2002-10312 |
| Phone | 575-441-4835 | Email | dadkins@talonlpe.com, mgomez@talonlpe.com |

**Work Order Comments**

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

| | | | |
|---|---|---|---|
| Project Name. | Lovington Deep | Turn Around | |
| Project Number | | ☑ Routine ☐ Rush | |
| Project Location | Lea, County | Due Date | |
| Sampler's Name | | TAT starts the day received by the lab if received by 4 30pm | |
| PO #: | SRS# 2002-10312 | | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank. | Yes (No) | Wet Ice | (Yes) No |
| Samples Received Intact: | (Yes) No | Thermometer ID | IR8 |
| Cooler Custody Seals | Yes No (N/A) | Correction Factor | -.30 |
| Sample Custody Seals | Yes No (N/A) | Temperature Reading | 5.8 |
| Total Containers | | Corrected Temperature | 5.5 |

**ANALYSIS REQUEST**

Pres. Code

Parameters: BTEX 8021B

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | BTEX 8021B |
|---|---|---|---|---|---|---|---|
| MW-1 | GW | 12-2-22 | 0932 | N/A | | 3 | X |
| MW-20 | | | 0950 | | | | |
| MW-4 | | | 1006 | | | | |
| MW-12 | | | 1010 | | | | |
| MW-19 | ↓ | ↓ | 1100 | ↓ | | ↓ | ↓ |

**Preservative Codes**

None NO — DI Water $H_2O$
Cool Cool — MeOH Me
HCL. HC — $HNO_3$ HN
$H_2S0_4$ $H_2$ — NaOH Na
$H_3PO_4$ HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$. $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

**Sample Comments**

Email Analyticals to
CJBryant@paalp.com
Maochoa@paalp.com

880-22228 Chain of Custody

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors It assigns standard terms and conditions of service Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed These terms will be enforced unless previously negotiated.

| | Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|---|---|---|---|---|---|---|
| 1 | Kelly Taylor | | 12/2/22 1437 | 2 | | |
| 3 | | | | 4 | | |
| 5 | | | | 6 | | |

Revised Date 08/25/2020 Rev 2020.2

# Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 880-22228-1
SDG Number: Lea, County

**Login Number: 22228**
**List Number: 1**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505

CONDITIONS

Action 206183

## CONDITIONS

| Operator: | OGRID: |
|---|---|
| PLAINS MARKETING L.P.<br>333 Clay Street Suite 1900<br>Houston, TX 77002 | 34053 |
| | Action Number:<br>206183 |
| | Action Type:<br>[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| michael.buchanan | Review of the 2022 Annual Groundwater Monitoring Report: Content Satisfactory 1. Continue to sample and monitor gw wells per protocol in sampling plan. 2. Continue monthly MDPE events. 3. Submit the 2023 Annual Groundwater Report by April 1, 2024. | 6/7/2023 |